

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651150

Luminaire Tested: **GALN-SA9C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46790.7 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

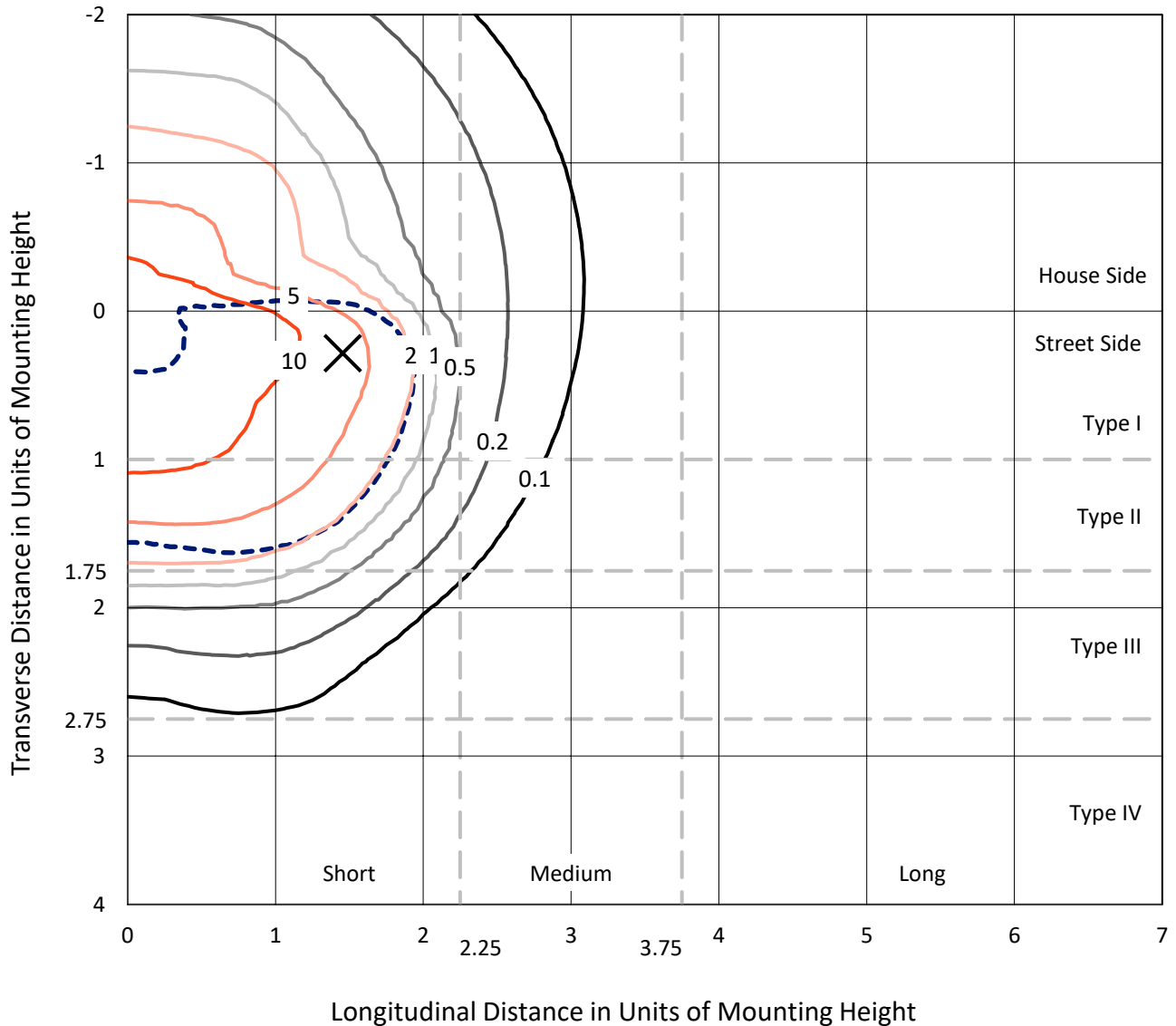
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

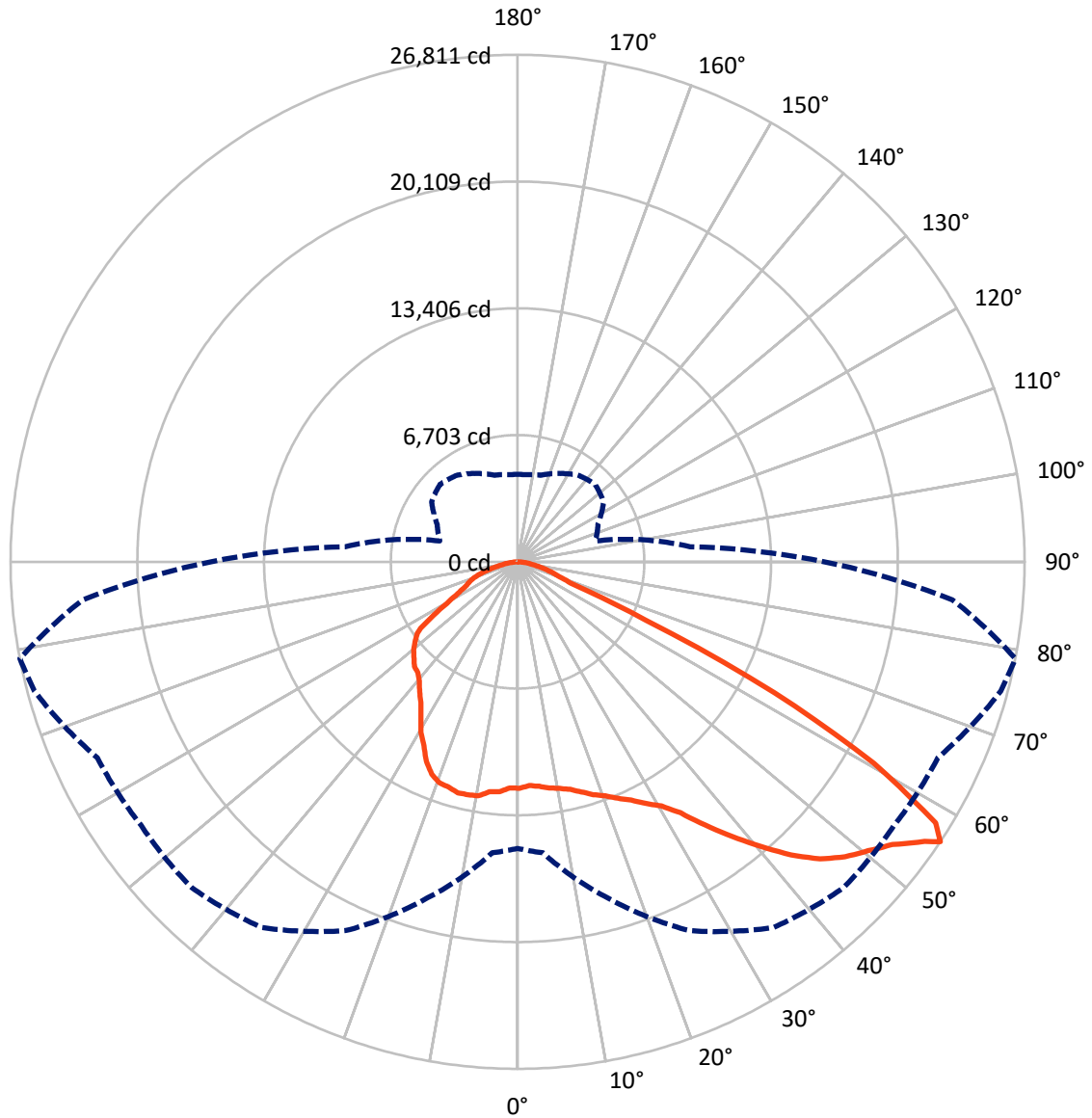
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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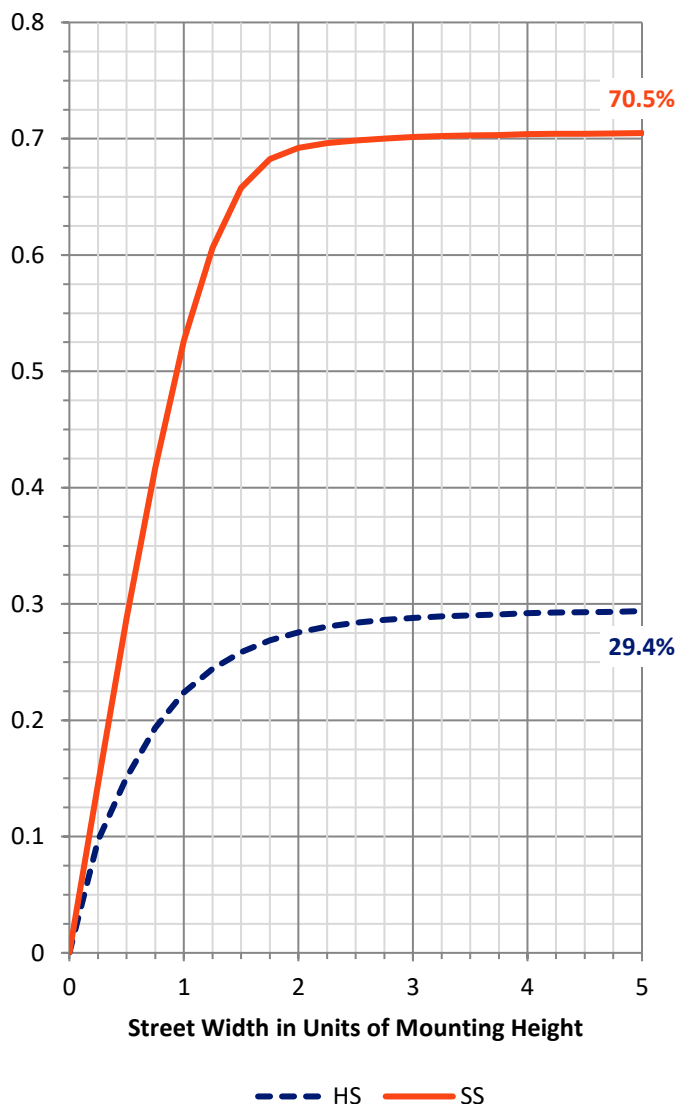
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13818.3	0.0	13818.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	32972.4	0.0	32972.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	46790.7	0.0	46790.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.5	2.3
10°-20°	2978.9	6.4
20°-30°	5096.2	10.9
30°-40°	7810.6	16.7
40°-50°	10556.0	22.6
50°-60°	12123.9	25.9
60°-70°	5526.4	11.8
70°-80°	1362.5	2.9
80°-90°	247.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	46790.7	100.0
0°-180°	46790.7	100.0

Coefficient of Utilization



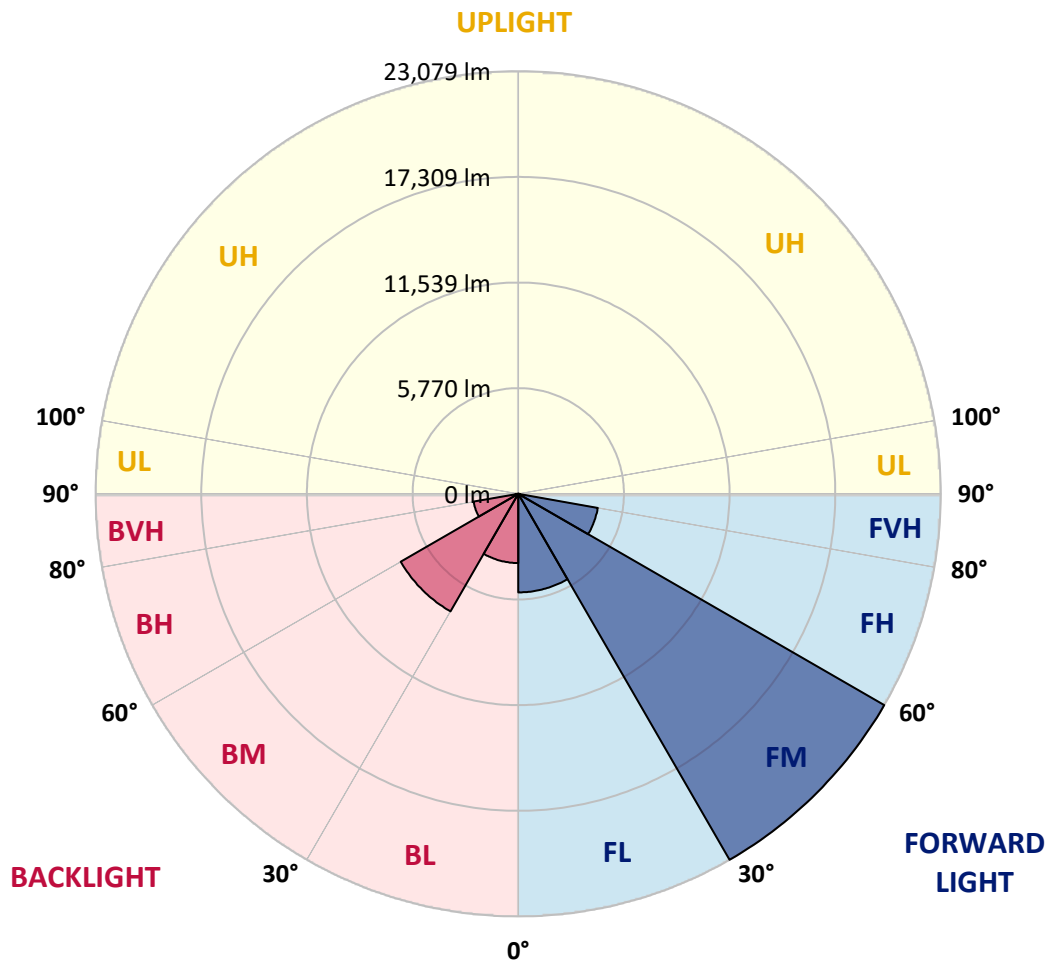
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5383.7	11.5			
FM (30°-60°)	23078.6	49.3			
FH (60°-80°)	4411.3	9.4			G2/5000
FVH (80°-90°)	98.9	0.2			G1/100
BL (0°-30°)	3779.9	8.1	B4/5000		
BM (30°-60°)	7412.0	15.8	B4/8500		
BH (60°-80°)	2477.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	148.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9
2.5°	11389.1	11359.9	11429.9	11482.3	11546.4	11628.0	11668.8	11692.1	11896.1	11843.6	12001.1
5°	11144.3	11068.5	11120.9	11161.8	11272.4	11371.6	11482.3	11657.2	11843.6	11925.3	12117.6
7.5°	10928.5	10887.8	10876.1	10905.2	11056.8	11185.0	11377.4	11633.8	11936.9	12071.0	12181.7
10°	10573.1	10514.8	10602.2	10794.5	10835.4	11103.5	11324.9	11692.1	11954.4	12187.5	12513.9
12.5°	10415.7	10357.3	10374.8	10485.6	10771.2	11027.7	11289.9	11703.8	12257.5	12350.8	12787.9
15°	10666.3	10608.0	10625.5	10596.3	10870.3	11004.3	11418.2	11936.9	12467.3	12624.7	13091.0
17.5°	11237.5	11243.3	11167.6	11103.5	11039.3	11324.9	11610.5	12076.8	12548.9	12945.3	13294.9
20°	12327.5	12135.1	11983.6	11622.2	11523.1	11645.5	12006.9	12455.6	12881.2	13207.6	13603.9
22.5°	13166.8	13184.3	12968.6	12374.1	12158.4	12210.9	12519.8	12887.0	13353.2	13586.4	14041.0
25°	14384.9	14262.5	14029.4	13557.3	13073.5	13114.3	13341.6	13673.8	13802.1	13965.2	14460.7
27.5°	15498.2	15533.2	15072.7	14629.7	14029.4	13912.8	14320.8	14379.1	14163.4	14472.3	14641.4
30°	16628.9	16599.7	16296.7	15777.9	15189.3	15212.6	15393.2	15107.6	14810.4	14979.5	15096.0
32.5°	17800.4	17468.2	17456.6	16990.3	16541.5	16325.8	16104.3	16244.3	15783.8	15818.8	15708.0
35°	18738.8	18785.5	18517.4	18185.1	17963.7	17584.8	16978.6	17229.2	17141.9	17101.1	16623.1
37.5°	19420.8	19240.1	19374.2	19263.4	19053.6	18581.5	17952.0	18191.0	18231.8	18429.9	17876.2
40°	19980.4	19904.6	20260.1	20318.4	20172.7	19152.7	18022.0	18733.0	19345.0	19776.4	19117.7
42.5°	20248.5	20411.7	20784.7	21233.5	20907.1	19817.2	18383.3	19146.9	20510.7	21192.7	20295.1
45°	20609.8	20400.0	20953.7	21775.6	21781.4	20376.7	18733.0	19706.4	21420.0	22410.9	21099.4
47.5°	20242.6	20347.6	20918.8	21962.0	22230.2	20965.4	19677.3	20499.1	22422.5	23302.7	21845.5
50°	19420.8	19630.6	20674.0	21758.1	22568.2	21589.1	20761.3	21355.9	23349.3	24019.5	21967.9
52.5°	18564.0	18680.5	20312.6	21915.5	22719.8	22393.4	22212.7	22539.1	24480.0	24829.8	22119.5
55°	16232.6	16786.3	19117.7	21845.5	23460.0	23844.7	23704.8	24182.8	25762.3	26112.0	22947.1
56°	15154.3	15445.7	18400.8	21519.1	23605.7	24375.1	24305.2	24520.8	26444.2	26811.4	23075.4
57.5°	13160.9	13184.3	15690.5	20073.6	23057.9	24532.5	24462.5	24631.5	26310.2	26059.6	21950.4
60°	8235.7	8597.1	10677.9	15439.9	19607.3	22760.6	23156.9	21798.9	22183.6	21653.1	17077.7
62.5°	4266.5	4214.1	5595.4	9028.5	13015.2	16296.7	16663.9	16599.7	16005.2	15230.1	11155.9
65°	2127.4	2139.1	2925.9	4470.5	6667.9	8533.0	9558.9	9669.6	8090.1	7443.1	5292.3
67.5°	1544.6	1602.9	2104.1	2733.6	3141.6	3514.6	4307.3	4225.7	3199.9	3042.5	2821.1
70°	1200.7	1253.2	1707.7	2086.6	1894.3	1894.3	2063.3	2133.3	2278.9	2343.1	2418.9
72.5°	874.3	915.1	1305.6	1439.6	1241.5	1334.8	1544.6	1707.7	1859.3	1882.7	1970.0
75°	600.3	635.3	856.8	792.7	746.1	920.9	1130.7	1282.3	1393.0	1451.3	1503.8
77.5°	390.5	402.2	489.6	413.9	477.9	594.5	734.4	862.6	973.4	1020.0	1031.7
80°	174.8	192.3	209.8	262.3	332.2	425.5	524.5	629.5	699.5	717.0	751.9
82.5°	99.1	99.1	128.3	186.5	244.8	308.9	378.9	454.6	536.2	553.7	547.9
85°	52.5	52.5	75.8	110.8	151.5	180.6	174.8	180.6	192.3	221.5	215.6
87.5°	17.5	17.5	23.3	23.3	29.2	35.0	29.2	40.8	52.5	52.5	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9	11971.9
2.5°	11954.4	12006.9	11936.9	12088.4	12088.4	12059.4	11913.6	11960.2	11995.2	11995.2	12024.4
5°	12181.7	12164.2	12210.9	12030.2	11919.4	11878.6	11639.7	11523.1	11424.0	11418.2	11330.7
7.5°	12310.0	12263.3	12245.8	12111.7	11622.2	11324.9	10812.0	10514.8	10450.6	10223.3	10310.7
10°	12513.9	12601.4	12513.9	11785.4	11103.5	10421.5	9920.3	9459.7	9279.1	9133.3	9046.0
12.5°	12933.6	12892.8	12385.7	11400.7	10444.8	9634.7	8888.6	8404.8	8224.1	8095.9	8084.2
15°	13289.1	13085.1	12310.0	10794.5	9418.9	8556.3	7944.3	7600.5	7518.9	7530.5	7583.0
17.5°	13411.5	13271.7	11913.6	10165.0	8655.4	7641.2	7355.6	7303.2	7378.9	7466.4	7489.7
20°	13603.9	13382.4	11750.4	9308.3	7711.2	7070.0	7052.5	7239.1	7378.9	7507.2	7524.7
22.5°	14006.1	13446.5	11220.0	8498.1	7064.2	6901.0	7070.0	7227.5	7443.1	7548.0	7454.7
25°	14122.7	13306.6	10474.0	7524.7	6656.3	6796.1	6976.8	7192.5	7344.0	7402.3	7443.1
27.5°	14221.7	13091.0	9465.6	6877.7	6528.0	6790.3	6976.8	7157.5	7239.1	7291.6	7338.1
30°	14501.5	13026.8	8591.3	6446.4	6446.4	6673.8	6912.7	6959.4	7070.0	7134.2	7215.8
32.5°	14641.4	12583.9	7693.7	6172.4	6364.8	6732.0	6749.5	6836.9	6842.7	6895.2	6807.8
35°	15008.6	12269.2	6860.2	5974.3	6399.8	6673.8	6761.1	6708.7	6423.1	6283.2	6312.4
37.5°	15276.7	12111.7	6259.9	5951.0	6405.6	6737.8	6784.4	6388.2	6090.9	5857.7	5916.0
40°	15999.4	11721.3	5805.3	5910.2	6458.0	6807.8	6679.6	6248.2	5712.0	5473.1	5432.3
42.5°	16553.2	11441.5	5519.7	5863.5	6498.8	6906.9	6627.1	5968.5	5420.6	5199.1	5257.3
45°	17194.3	11377.4	5368.1	5875.2	6568.8	6959.4	6563.0	5752.8	5170.0	5082.5	5065.0
47.5°	17421.6	10916.9	5204.9	5776.2	6551.3	6941.9	6347.3	5589.6	5076.7	5088.4	5135.0
50°	17042.8	10444.8	5082.5	5572.1	6434.7	6784.4	6009.3	5373.9	5024.2	5170.0	5251.5
52.5°	16559.0	9961.1	4831.9	5298.2	6195.8	6539.7	5851.9	5362.3	4971.7	4925.1	4942.6
55°	16704.7	9564.7	4482.2	4925.1	5811.1	6085.1	5677.0	5251.5	4843.6	4668.7	4727.0
56°	16232.6	9156.7	4254.9	4692.0	5548.8	5793.6	5589.6	5152.5	4738.6	4622.1	4622.1
57.5°	14897.8	7787.0	3957.6	4319.0	4995.1	5286.5	5420.6	5094.2	4622.1	4418.0	4423.9
60°	10986.8	5537.1	3549.6	3806.0	4138.3	4371.4	4995.1	4931.0	4330.6	4190.7	4138.3
62.5°	6772.8	4045.0	3258.2	3357.3	3526.3	3718.6	4359.7	4464.7	4021.7	3870.2	3835.2
65°	3794.4	3095.0	3036.7	3077.5	3159.0	3258.2	3619.6	3852.7	3549.6	3316.5	3304.8
67.5°	2774.4	2768.6	2815.2	2850.1	2885.1	2885.1	2972.6	3065.9	3025.0	2838.5	2821.1
70°	2465.5	2483.0	2518.0	2523.8	2535.4	2494.7	2424.7	2395.5	2442.2	2325.6	2302.3
72.5°	2034.2	2092.5	2133.3	2139.1	2075.0	2022.5	1929.3	1830.2	1795.2	1771.9	1766.1
75°	1562.1	1602.9	1620.4	1614.6	1591.2	1515.4	1404.7	1305.6	1241.5	1171.5	1206.5
77.5°	1055.0	1113.2	1142.4	1142.4	1107.4	990.9	938.4	862.6	798.5	722.8	734.4
80°	740.2	781.0	827.6	821.8	763.5	705.3	629.5	559.5	507.1	448.8	443.0
82.5°	553.7	577.0	600.3	588.7	547.9	489.6	437.2	373.1	314.7	273.9	273.9
85°	198.1	215.6	262.3	273.9	297.3	297.3	250.6	209.8	169.0	139.9	139.9
87.5°	58.3	58.3	64.1	64.1	58.3	64.1	52.5	58.3	64.1	40.8	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)