

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: P533806

Luminaire Tested: **GALN-SA9B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41283 lumens
Efficiency: N/A
Efficacy: 113.4 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

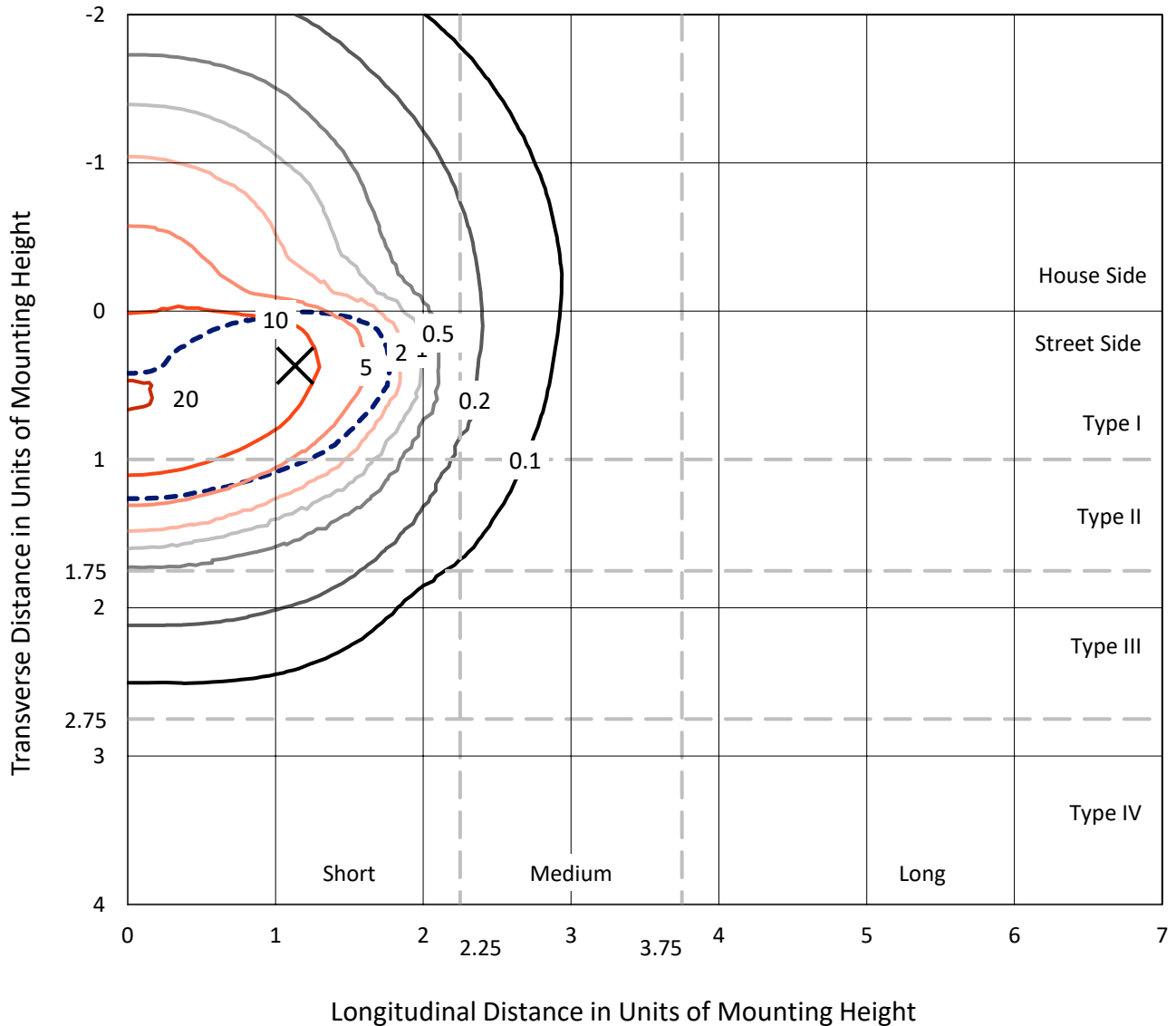
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

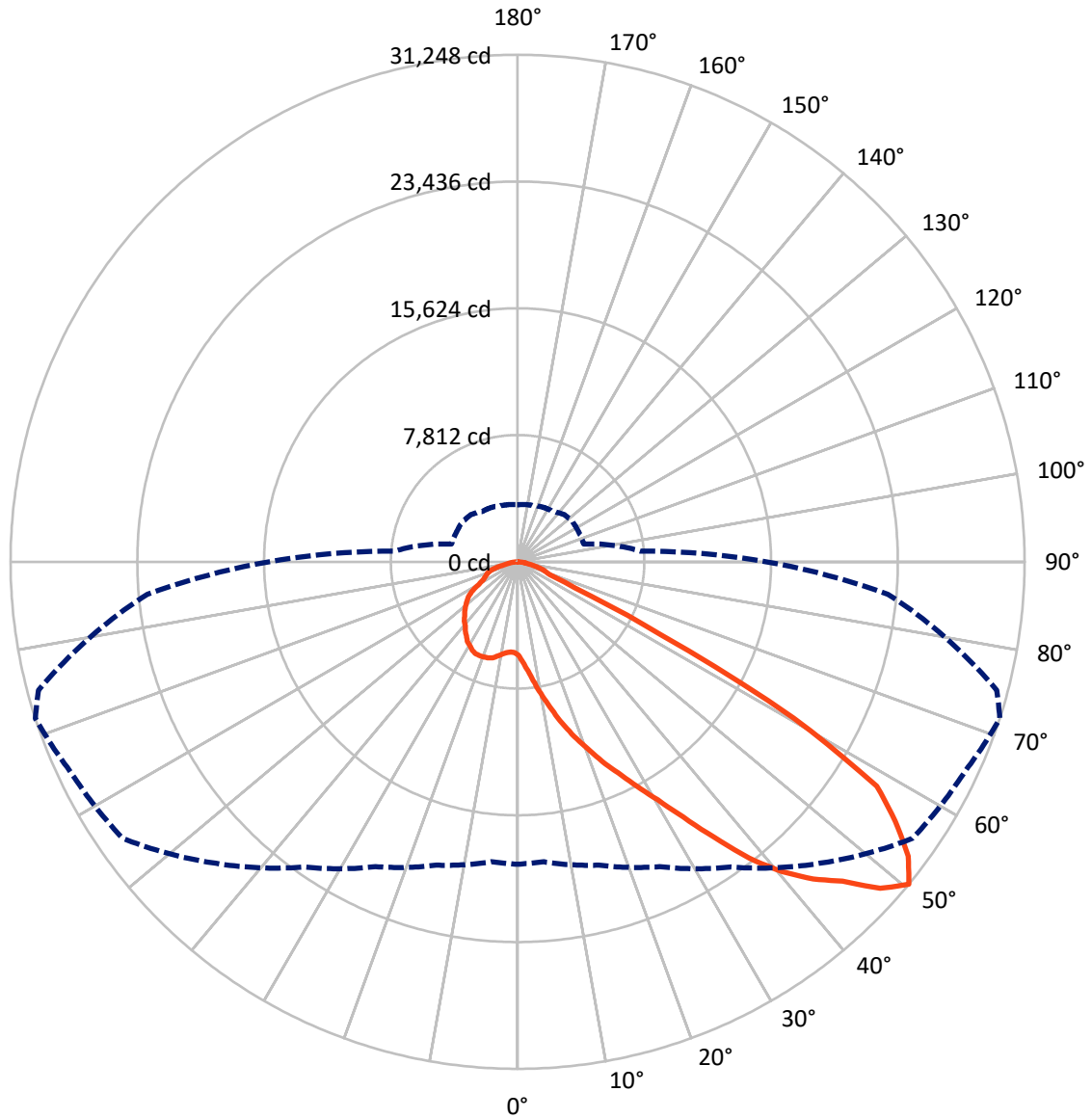
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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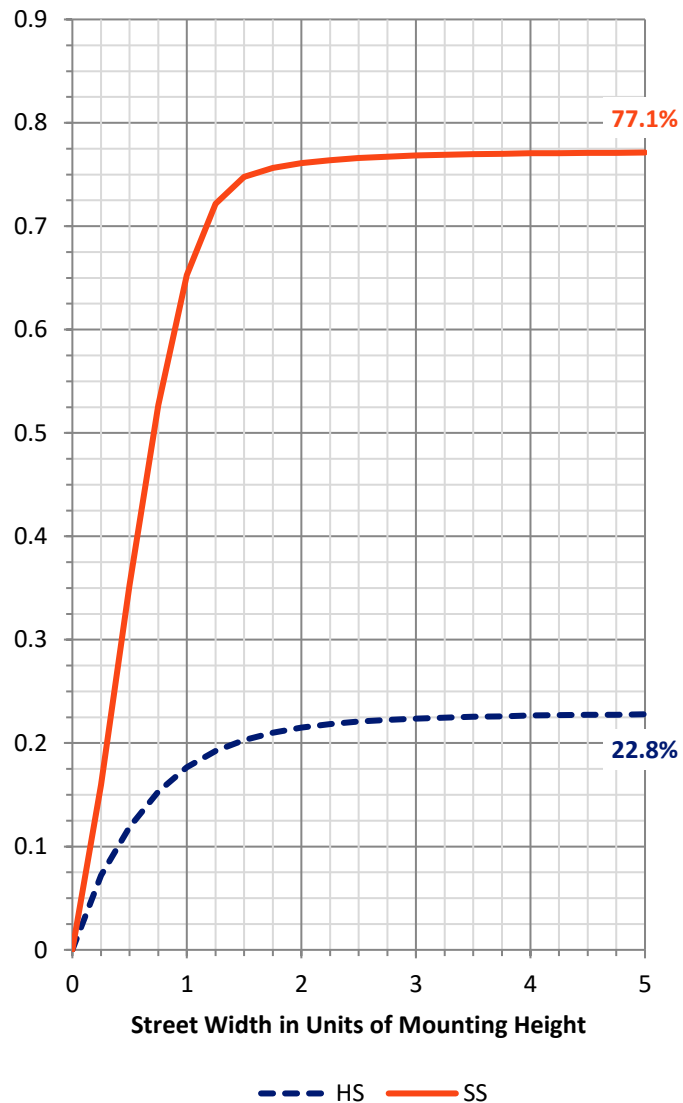
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9458.2	0.0	9458.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31824.8	0.0	31824.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	41283.0	0.0	41283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.0	1.6
10°-20°	2527.1	6.1
20°-30°	4899.8	11.9
30°-40°	8117.3	19.7
40°-50°	11357.8	27.5
50°-60°	9581.8	23.2
60°-70°	2920.5	7.1
70°-80°	1024.6	2.5
80°-90°	178.1	0.4
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°	41283.0	100.0
0°-180°	41283.0	100.0

Coefficient of Utilization



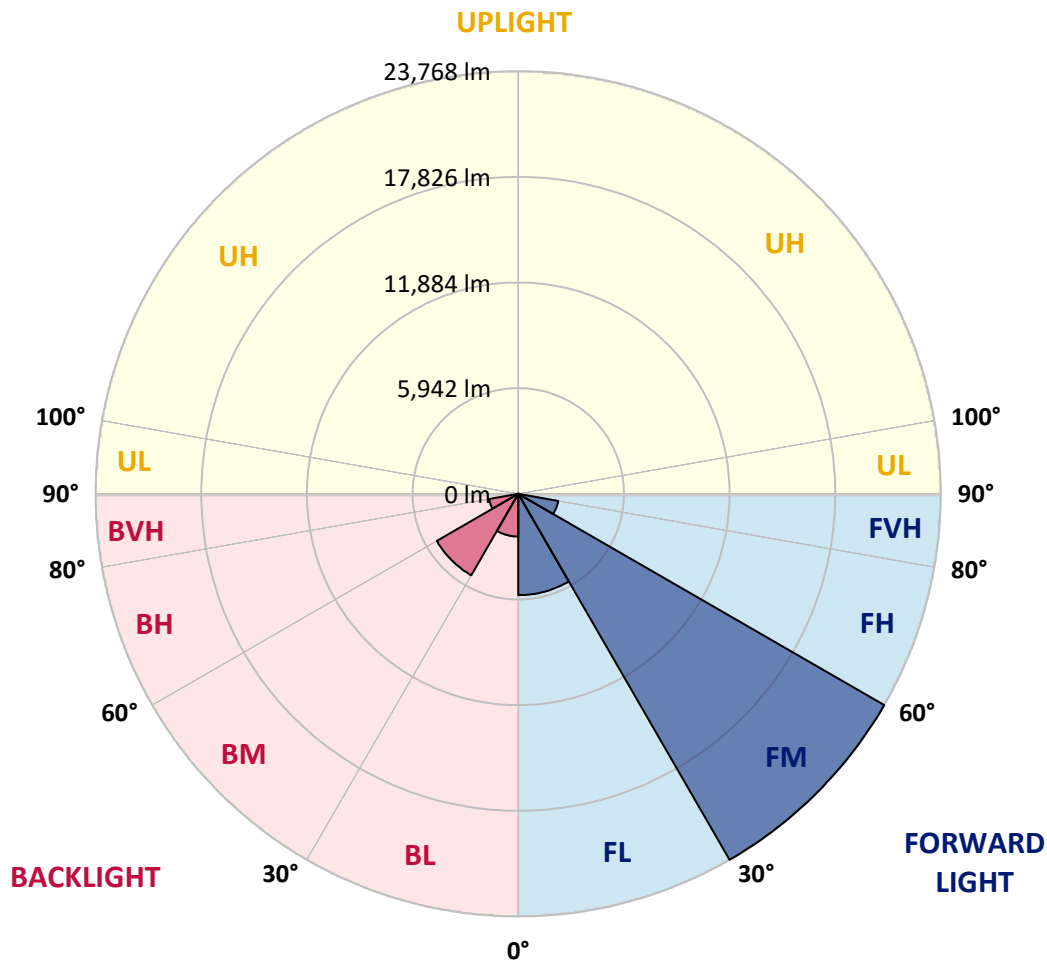
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5698.5	13.8			
FM (30°-60°)	23767.7	57.6			
FH (60°-80°)	2278.8	5.5			G2/5000
FVH (80°-90°)	79.8	0.2			G1/100
BL (0°-30°)	2404.3	5.8	B3/2500		
BM (30°-60°)	5289.2	12.8	B4/8500		
BH (60°-80°)	1666.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	98.4	0.2			G1/100
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°	72°	75°	85°
0°	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9
2.5°	7391.8	7345.9	7207.9	7162.0	6998.5	6702.2	6600.0	6298.7	6170.9	6053.4	5915.5
5°	9348.4	9133.8	9118.5	8858.0	8479.9	8260.3	7606.4	7167.1	6763.5	6559.2	6181.2
7.5°	10594.8	10599.9	10599.9	10385.4	10084.0	9527.2	8939.7	8147.9	7540.0	7238.6	6594.9
10°	11780.0	11677.8	11621.6	11601.2	11396.8	10855.3	10227.0	9246.2	8413.5	8061.0	6906.6
12.5°	12617.7	12530.9	12658.6	12592.2	12444.1	12091.6	11499.0	10380.3	9338.1	8863.1	7407.2
15°	13016.2	13077.5	13179.7	13363.6	13297.2	13164.3	12510.5	11545.0	10334.3	9797.9	7851.6
17.5°	13629.2	13460.6	13583.2	13813.1	13997.0	13935.7	13562.8	12387.9	11320.2	10661.2	8449.3
20°	14058.3	13961.2	14022.5	14288.2	14426.1	14773.5	14579.4	13491.3	12265.3	11570.5	9154.2
22.5°	15284.3	15141.3	14942.1	14982.9	15034.0	15279.2	15325.2	14702.0	13363.6	12628.0	9823.4
25°	16796.4	16663.6	16428.6	16188.5	16040.4	15994.4	16152.7	15652.1	14415.9	13654.7	10543.7
27.5°	18461.7	18237.0	18088.8	17593.3	17194.9	17133.6	17056.9	16786.2	15662.3	14839.9	11356.0
30°	20081.1	19902.3	19703.1	18911.3	18497.5	18431.1	18053.1	18129.7	17016.1	16101.7	12275.5
32.5°	21307.1	21322.4	20867.8	20270.1	19881.9	19529.4	19391.5	19611.1	18752.9	18017.3	13302.3
35°	22298.1	22344.1	21909.9	21368.4	20949.5	21194.7	21133.4	21235.6	20826.9	19927.9	14497.6
37.5°	23263.6	23033.8	22568.9	22308.4	22088.7	22492.3	23013.3	23100.2	23176.8	22119.4	15887.1
40°	23422.0	23442.4	23171.7	23355.6	23079.7	23687.6	24898.3	24785.9	25097.6	24172.9	17394.1
42.5°	23197.2	23243.2	23350.5	23611.0	24275.1	25005.6	26803.8	26344.0	26722.0	25899.6	18860.2
45°	22829.4	22640.4	22773.2	23764.3	24913.6	26538.1	28545.7	28188.1	28065.5	27375.9	20607.3
47.5°	21072.1	21266.3	21680.0	22900.9	24627.6	26803.8	29781.9	29700.2	30068.0	29582.7	22196.0
50°	18635.4	18558.8	19355.7	20729.9	22957.1	26282.7	29715.5	30456.3	31248.1	30573.8	22906.0
52.5°	13956.1	14364.8	15049.3	16755.5	19933.0	23442.4	28264.8	29501.0	30144.6	30001.6	22333.9
55°	8822.2	8944.8	9358.6	11386.6	14247.3	18814.2	24229.1	27094.9	28244.3	28780.7	21807.7
57.5°	4285.9	4056.1	4561.8	6191.4	8229.6	12653.5	18686.5	23600.8	26098.8	27069.4	20663.5
60°	2237.5	2324.3	2523.5	3105.9	4255.3	6569.4	11647.1	15728.8	19544.7	21036.4	15662.3
62.5°	1854.3	1885.0	2017.8	2309.0	2830.1	3780.2	5946.2	7667.7	9966.5	11310.0	8909.0
65°	1573.4	1588.7	1731.7	1925.9	2257.9	2661.5	3059.9	3203.0	3877.3	3979.4	3167.2
67.5°	1312.9	1328.2	1481.4	1665.3	1879.9	1987.2	2089.3	2079.1	2155.7	2125.1	2120.0
70°	1011.5	1026.8	1185.1	1379.3	1486.5	1425.2	1742.0	1813.5	1844.1	1869.7	1910.5
72.5°	730.5	761.2	883.8	1021.7	965.5	1108.5	1435.5	1542.7	1583.6	1598.9	1650.0
75°	531.3	541.5	572.1	531.3	613.0	771.4	1011.5	1144.3	1195.4	1210.7	1287.3
77.5°	235.0	240.1	245.2	306.5	393.3	480.2	602.8	710.1	781.6	802.0	822.5
80°	122.6	127.7	158.4	209.4	281.0	352.5	439.3	500.6	546.6	551.7	572.1
82.5°	76.6	81.7	112.4	148.1	199.2	260.5	321.8	372.9	408.7	413.8	418.9
85°	35.8	46.0	66.4	92.0	132.8	168.6	173.7	148.1	158.4	163.5	153.3
87.5°	10.2	15.3	20.4	15.3	20.4	20.4	25.5	30.7	30.7	30.7	35.8
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°	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9
2.5°	5838.9	5792.9	5614.1	5547.7	5374.0	5404.7	5312.7	5307.6	5287.2	5282.1	5277.0
5°	5981.9	5838.9	5624.3	5460.9	5363.8	5353.6	5287.2	5287.2	5307.6	5322.9	5287.2
7.5°	6216.9	6053.4	5690.8	5537.5	5450.7	5435.3	5389.4	5353.6	5399.6	5384.2	5343.4
10°	6487.7	6201.6	5818.5	5685.6	5542.6	5506.9	5506.9	5522.2	5445.6	5471.1	5430.2
12.5°	6789.1	6405.9	5981.9	5828.7	5660.1	5639.7	5629.5	5517.1	5557.9	5537.5	5435.3
15°	7172.2	6640.9	6191.4	5930.8	5787.8	5695.9	5563.0	5542.6	5517.1	5466.0	5420.0
17.5°	7586.0	6896.3	6288.4	5961.5	5746.9	5680.5	5578.4	5471.1	5394.5	5404.7	5368.9
20°	7938.4	7131.3	6324.2	5992.1	5716.3	5588.6	5430.2	5363.8	5282.1	5277.0	5271.9
22.5°	8357.3	7448.0	6375.3	5910.4	5624.3	5491.5	5384.2	5266.8	5210.6	5139.0	5174.8
25°	8858.0	7570.6	6385.5	5864.4	5557.9	5322.9	5266.8	5139.0	5118.6	5016.4	5036.9
27.5°	9220.7	7637.1	6303.8	5721.4	5404.7	5225.9	5123.7	5031.8	4996.0	4919.4	4899.0
30°	9706.0	7739.2	6130.1	5542.6	5251.4	5052.2	4990.9	4970.5	4868.3	4786.6	4776.4
32.5°	10257.7	7805.6	6017.7	5358.7	5093.1	4939.8	4970.5	4873.4	4745.7	4674.2	4653.7
35°	10697.0	7831.2	5736.7	5149.3	4985.8	4888.7	4853.0	4832.5	4648.6	4582.2	4531.1
37.5°	11366.2	7775.0	5501.7	5001.1	4868.3	4832.5	4801.9	4664.0	4454.5	4357.5	4285.9
40°	12147.8	7759.7	5200.3	4791.7	4755.9	4796.8	4704.8	4490.3	4199.1	4091.8	4040.7
42.5°	12898.7	7866.9	5011.3	4679.3	4633.3	4648.6	4520.9	4199.1	4056.1	3994.8	3913.0
45°	14155.4	8091.7	4699.7	4505.6	4485.2	4475.0	4321.7	3984.5	3902.8	3826.2	3810.9
47.5°	15289.4	7943.6	4500.5	4326.8	4347.2	4291.1	3964.1	3856.8	3764.9	3688.3	3662.7
50°	15355.8	7591.1	4219.5	4188.9	4194.0	4096.9	3785.3	3713.8	3596.3	3545.2	3509.5
52.5°	15008.5	7013.8	3959.0	3969.2	3984.5	3826.2	3565.7	3514.6	3417.5	3346.0	3325.6
55°	14032.8	6114.8	3703.6	3744.5	3785.3	3483.9	3402.2	3274.5	3197.9	3095.7	3100.8
57.5°	12362.3	4924.5	3346.0	3412.4	3499.3	3167.2	3105.9	2947.5	2835.2	2753.4	2743.2
60°	8285.8	3504.4	2809.6	2835.2	3029.3	2896.5	2891.4	2733.0	2579.7	2508.2	2467.4
62.5°	4888.7	2676.8	2426.5	2400.9	2395.8	2472.5	2600.2	2544.0	2344.8	2206.8	2247.7
65°	2559.3	2314.1	2257.9	2171.1	2120.0	2099.6	2196.6	2222.2	2089.3	1941.2	1931.0
67.5°	2150.6	2150.6	2104.7	2074.0	2002.5	1915.6	1854.3	1772.6	1752.2	1711.3	1660.2
70°	1956.5	2007.6	1992.3	1920.8	1859.5	1762.4	1604.0	1471.2	1343.5	1297.5	1328.2
72.5°	1706.2	1757.3	1757.3	1721.5	1639.8	1491.7	1338.4	1185.1	1077.9	996.1	985.9
75°	1312.9	1338.4	1399.7	1358.8	1251.6	1159.6	1001.2	842.9	740.7	664.1	648.8
77.5°	837.8	878.6	878.6	873.5	796.9	710.1	607.9	495.5	418.9	362.7	347.4
80°	556.8	582.4	602.8	582.4	531.3	464.9	388.2	311.6	255.4	209.4	199.2
82.5°	408.7	439.3	454.6	434.2	383.1	332.0	275.9	219.7	163.5	127.7	117.5
85°	158.4	163.5	183.9	219.7	214.6	209.4	168.6	122.6	92.0	66.4	61.3
87.5°	40.9	35.8	40.9	40.9	35.8	30.7	30.7	30.7	30.7	15.3	20.4
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)