

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: P533807

Luminaire Tested: **GALN-SA9B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28054 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

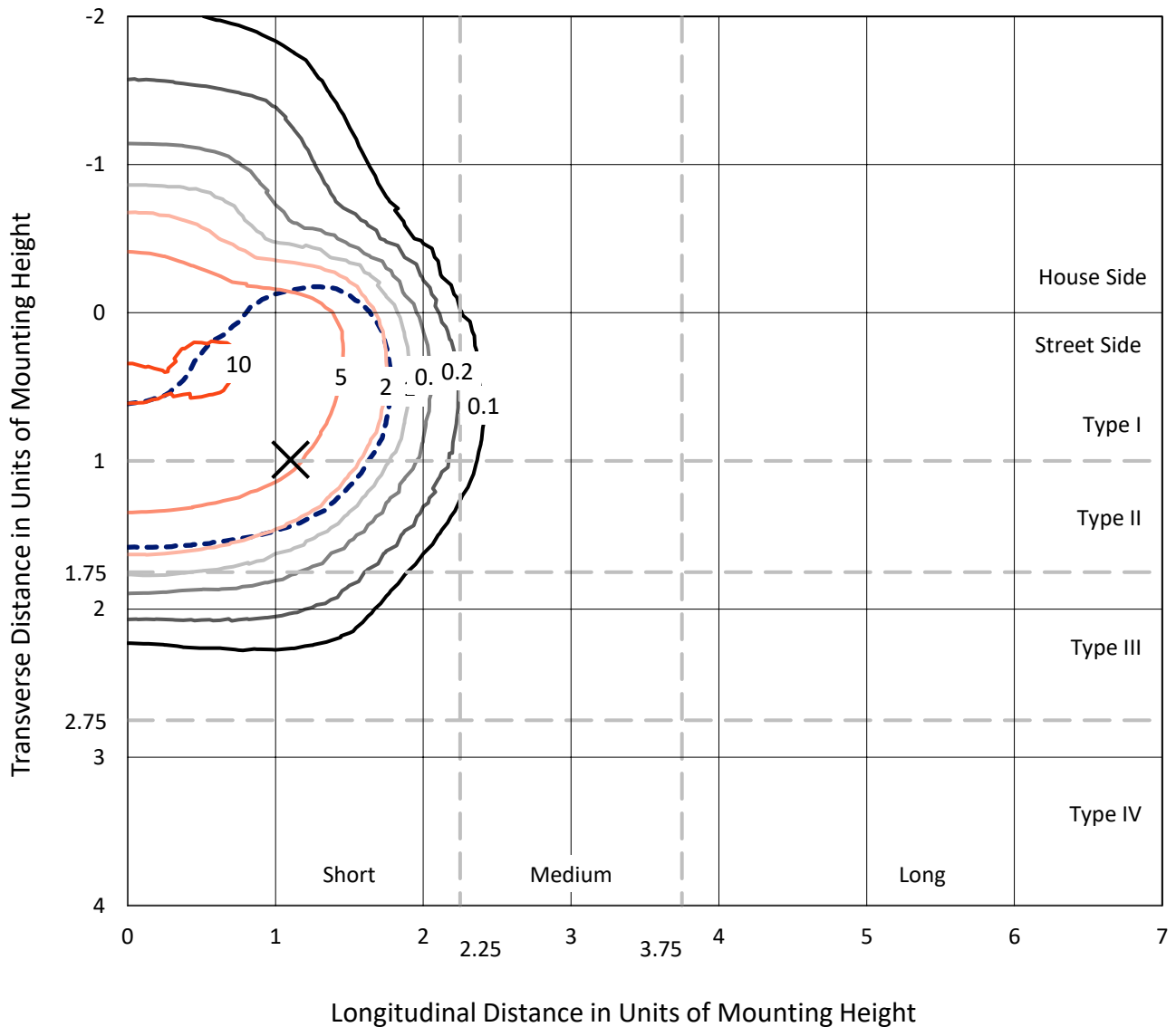
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

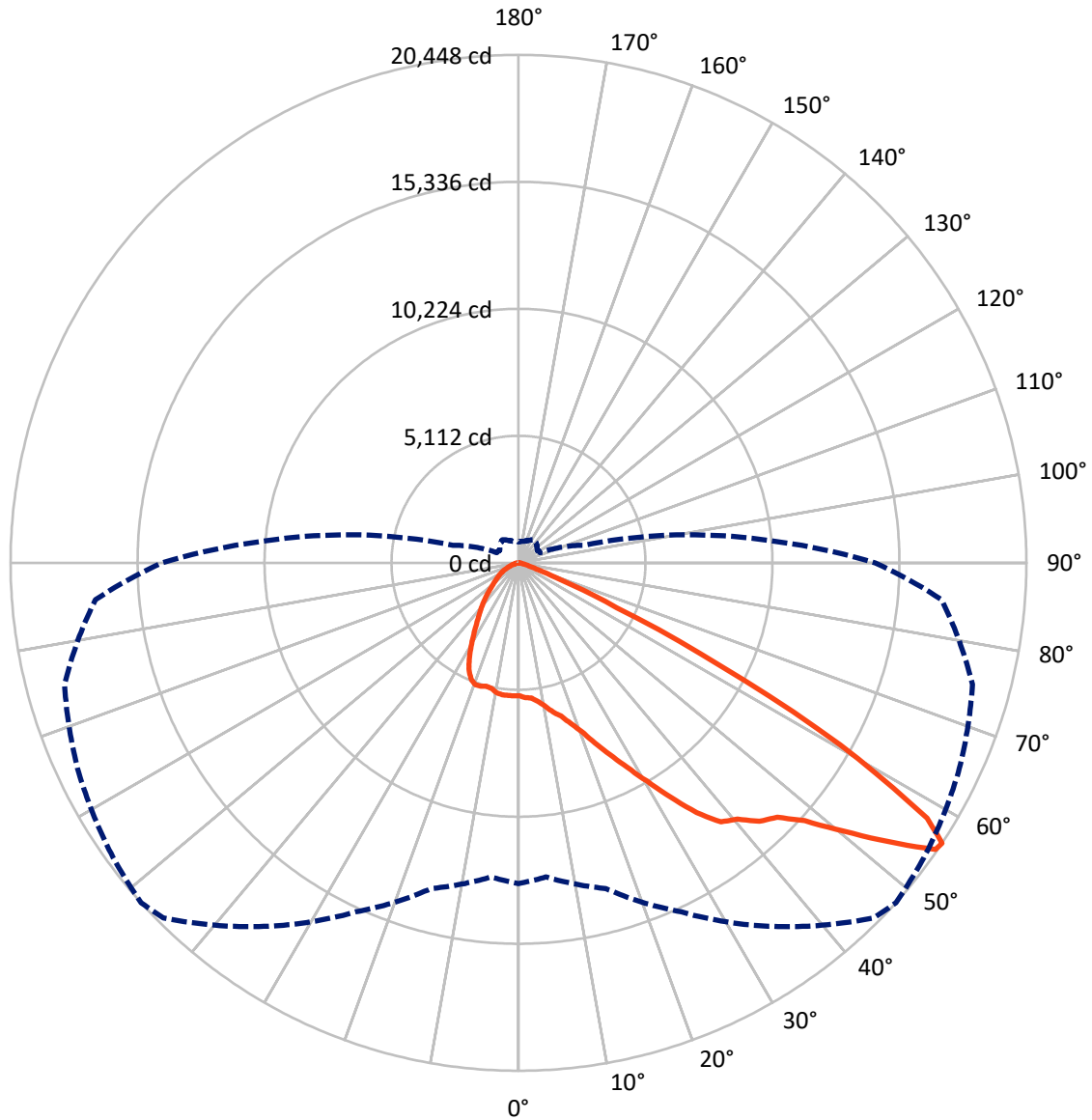
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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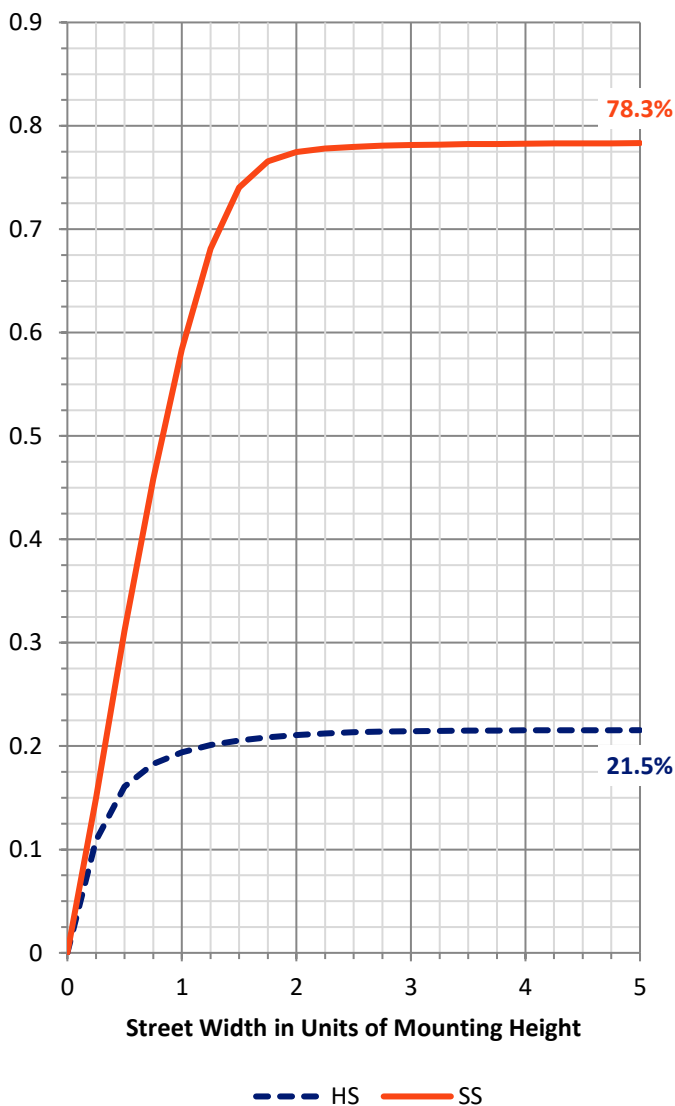
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6101.2	0.0	6101.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21952.8	0.0	21952.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	28054.0	0.0	28054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	1.9
10°-20°	1668.1	5.9
20°-30°	3025.6	10.8
30°-40°	4752.6	16.9
40°-50°	6933.2	24.7
50°-60°	8353.1	29.8
60°-70°	2445.7	8.7
70°-80°	310.3	1.1
80°-90°	43.5	0.2
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°	28054.0	100.0
0°-180°	28054.0	100.0

Coefficient of Utilization



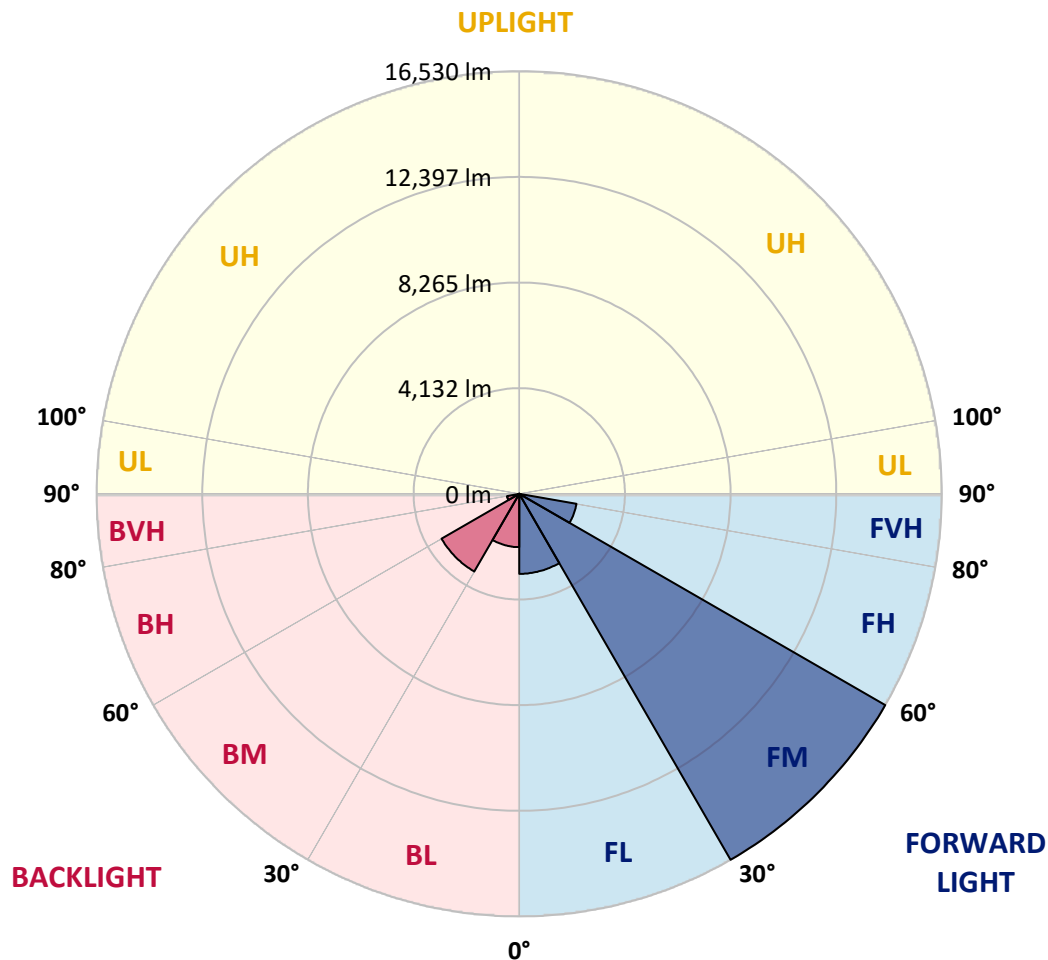
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3130.3	11.2			
FM (30°-60°)	16529.5	58.9			
FH (60°-80°)	2271.2	8.1			G2/5000
FVH (80°-90°)	21.8	0.1			G1/100
BL (0°-30°)	2085.4	7.4	B3/2500		
BM (30°-60°)	3509.4	12.5	B3/5000		
BH (60°-80°)	484.8	1.7	B1/500		G1/500
BVH (80°-90°)	21.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3
2.5°	5455.4	5429.8	5429.8	5389.0	5434.9	5414.5	5429.8	5378.8	5429.8	5353.2	5414.5
5°	5480.9	5486.0	5465.6	5491.1	5491.1	5521.8	5470.7	5516.7	5542.2	5486.0	5460.5
7.5°	5613.7	5623.9	5618.8	5598.4	5639.3	5634.2	5629.1	5593.3	5603.5	5583.1	5552.4
10°	5874.2	5869.1	5894.7	5843.6	5812.9	5848.7	5858.9	5802.7	5761.9	5746.5	5649.5
12.5°	6252.2	6190.9	6155.2	6104.1	6119.4	6068.3	6160.3	6063.2	6042.8	5950.9	5853.8
15°	6558.7	6548.5	6553.6	6471.9	6379.9	6400.4	6400.4	6349.3	6318.6	6206.3	6068.3
17.5°	7187.0	6972.5	7018.4	6916.3	6839.7	6834.5	6788.6	6798.8	6717.1	6482.1	6272.7
20°	7677.4	7585.4	7513.9	7340.2	7222.8	7258.5	7238.1	7187.0	7161.5	6855.0	6558.7
22.5°	8116.7	8147.3	8029.8	7983.9	7820.4	7835.7	7876.6	7830.6	7636.5	7319.8	6880.5
25°	8734.7	8699.0	8540.6	8484.4	8331.2	8387.4	8545.7	8510.0	8387.4	7815.3	7130.8
27.5°	9465.2	9342.6	9373.2	9117.8	8969.7	9128.1	9317.1	9495.8	9148.5	8397.6	7427.1
30°	9981.1	9853.4	9843.2	9833.0	9797.2	9981.1	10200.7	10364.2	10083.3	8979.9	7917.5
32.5°	10236.5	10267.1	10354.0	10323.3	10634.9	11012.9	11242.8	11477.7	11125.3	9930.0	8566.2
35°	10915.9	10721.8	10915.9	10936.3	11258.1	12060.1	12351.2	12913.1	12826.3	11273.4	9357.9
37.5°	11314.3	11299.0	11324.5	11518.6	11830.2	12821.2	13234.9	13669.1	13505.6	12080.5	10343.8
40°	11973.2	12014.1	12009.0	12157.1	12499.4	13393.3	13561.8	13914.3	13929.6	13199.2	11794.4
42.5°	13030.6	12867.1	12759.9	12913.1	13393.3	13888.7	14225.9	14154.4	14660.1	14557.9	13658.9
45°	13980.7	14077.7	13919.4	14174.8	14348.5	14614.1	14603.9	14757.1	15400.7	15886.0	15063.6
47.5°	14869.5	14930.8	15007.4	15181.1	15559.1	15599.9	15513.1	15446.7	16335.5	16836.1	16151.6
50°	15400.7	15456.9	15814.5	16126.1	16831.0	16922.9	16974.0	16805.4	17408.2	17464.4	17178.3
52.5°	15257.7	15319.0	15819.6	16846.3	17970.1	18812.9	18659.6	18373.6	18337.8	18557.5	18128.4
55°	13990.9	13934.7	14624.3	16223.1	18327.6	20350.4	20370.8	20069.5	19492.3	19344.1	17985.4
56°	12913.1	12693.5	13572.0	15502.9	17867.9	20217.6	20447.5	20125.6	19584.2	18920.2	17101.7
57.5°	10578.7	10788.2	11661.6	13260.5	16279.3	19262.4	19395.2	19318.6	18909.9	17796.4	15048.3
60°	5833.4	6201.2	6972.5	8928.8	11590.1	14782.6	14889.9	15513.1	15589.7	13628.2	10354.0
62.5°	2477.4	2436.5	3238.5	4679.0	6599.6	8923.7	9122.9	9761.5	9878.9	7856.2	5194.9
65°	1006.3	1062.5	1466.0	2354.8	3488.8	4066.0	4346.9	4556.4	4944.6	3243.6	1915.5
67.5°	664.0	658.9	863.3	1343.4	1879.8	1813.4	1813.4	1915.5	1772.5	1323.0	827.5
70°	475.0	490.4	618.1	929.7	1169.7	868.4	832.6	796.9	904.1	873.5	669.2
72.5°	311.6	332.0	413.8	556.8	607.9	475.0	475.0	572.1	745.8	704.9	546.6
75°	204.3	209.4	255.4	321.8	301.4	245.2	270.7	383.1	541.5	521.0	388.2
77.5°	137.9	143.0	173.7	209.4	168.6	137.9	148.1	194.1	265.6	265.6	204.3
80°	51.1	56.2	71.5	66.4	76.6	97.1	107.3	132.8	158.3	158.3	137.9
82.5°	0.0	5.1	15.3	35.8	56.2	76.6	86.8	102.2	117.5	132.8	127.7
85°	0.0	5.1	15.3	25.5	40.9	46.0	51.1	35.8	30.6	30.6	25.5
87.5°	0.0	0.0	5.1	5.1	5.1	5.1	5.1	5.1	10.2	5.1	5.1
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°	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3	5358.3
2.5°	5358.3	5353.2	5353.2	5337.9	5368.5	5353.2	5363.4	5358.3	5291.9	5343.0	5307.2
5°	5414.5	5450.3	5394.1	5383.9	5343.0	5358.3	5358.3	5307.2	5353.2	5348.1	5337.9
7.5°	5557.5	5496.2	5434.9	5373.7	5363.4	5348.1	5291.9	5271.5	5307.2	5266.4	5327.7
10°	5618.8	5629.1	5537.1	5455.4	5378.8	5271.5	5194.9	5148.9	5092.7	5154.0	5189.8
12.5°	5899.8	5797.6	5639.3	5511.6	5251.1	5143.8	5067.2	5046.7	5143.8	5164.2	5128.5
15°	5996.8	5981.5	5777.2	5491.1	5220.4	5092.7	5108.0	5067.2	5077.4	5026.3	5036.5
17.5°	6196.0	6022.4	5782.3	5424.7	5215.3	5184.7	5092.7	4929.3	4837.3	4796.4	4832.2
20°	6415.7	6247.1	5899.8	5450.3	5261.3	5179.5	4878.2	4679.0	4490.0	4387.8	4392.9
22.5°	6609.8	6400.4	5848.7	5460.5	5302.1	4965.0	4602.3	4209.0	3974.0	3815.7	3820.8
25°	6844.8	6548.5	5869.1	5480.9	5194.9	4622.8	4101.8	3718.6	3437.7	3330.4	3366.2
27.5°	6977.6	6640.4	5981.5	5526.9	4913.9	4137.5	3575.6	3218.1	3054.6	3003.5	2998.4
30°	7376.0	6844.8	6119.4	5434.9	4444.0	3616.5	3095.5	2875.8	2717.5	2671.5	2681.7
32.5°	7968.5	7217.6	6298.2	5194.9	3963.8	3151.7	2783.9	2620.4	2472.3	2385.5	2375.2
35°	8464.0	7856.2	6487.2	4822.0	3407.1	2794.1	2564.2	2359.9	2135.2	2038.1	2012.6
37.5°	9409.0	8576.4	6446.3	4260.1	2875.8	2528.5	2329.3	2079.0	1884.9	1752.1	1736.7
40°	10665.6	9419.2	6247.1	3575.6	2482.5	2293.5	2079.0	1838.9	1598.8	1486.4	1476.2
42.5°	12192.9	10451.0	5884.5	2880.9	2089.2	2058.5	1864.4	1588.6	1374.1	1292.3	1297.4
45°	13434.1	11334.7	5516.7	2313.9	1798.0	1828.7	1660.1	1399.6	1251.5	1185.1	1185.1
47.5°	14537.5	11932.4	5118.2	1910.4	1527.3	1598.8	1450.7	1297.4	1169.7	1118.7	1108.4
50°	15599.9	12540.2	4719.8	1547.7	1302.5	1374.1	1358.7	1236.1	1134.0	1072.7	1077.8
52.5°	16264.0	12637.3	4214.1	1266.8	1139.1	1220.8	1271.9	1159.5	1047.1	1011.4	1001.2
55°	15451.8	11385.8	3269.1	1042.0	965.4	1072.7	1169.7	1042.0	955.2	893.9	888.8
56°	14358.7	10180.3	2732.8	960.3	914.3	1031.8	1134.0	996.1	899.0	863.3	837.7
57.5°	12157.1	8331.2	2017.7	853.0	847.9	960.3	1077.8	950.1	837.7	807.1	807.1
60°	7580.3	4689.2	1220.8	715.1	735.6	853.0	970.5	847.9	745.8	745.8	761.1
62.5°	3453.0	1951.3	740.7	607.9	633.4	735.6	863.3	766.2	710.0	766.2	776.4
65°	1174.8	842.8	536.3	485.3	500.6	607.9	740.7	776.4	771.3	807.1	827.5
67.5°	658.9	541.5	449.5	403.5	393.3	449.5	607.9	776.4	745.8	730.4	740.7
70°	556.8	459.7	398.4	357.6	342.2	362.7	469.9	587.4	526.1	510.8	500.6
72.5°	449.5	383.1	347.3	321.8	275.8	235.0	214.5	224.8	250.3	265.6	291.2
75°	316.7	291.2	291.2	260.5	199.2	148.1	117.5	97.1	66.4	46.0	51.1
77.5°	178.8	178.8	183.9	158.3	127.7	97.1	71.5	51.1	25.5	10.2	5.1
80°	122.6	132.8	143.0	127.7	107.3	86.8	61.3	35.8	15.3	0.0	0.0
82.5°	122.6	137.9	148.1	127.7	107.3	81.7	61.3	35.8	15.3	5.1	0.0
85°	25.5	30.6	35.8	40.9	61.3	61.3	46.0	30.6	15.3	5.1	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0
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)