

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: P530295

Luminaire Tested: **GALN-SA5C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21207 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

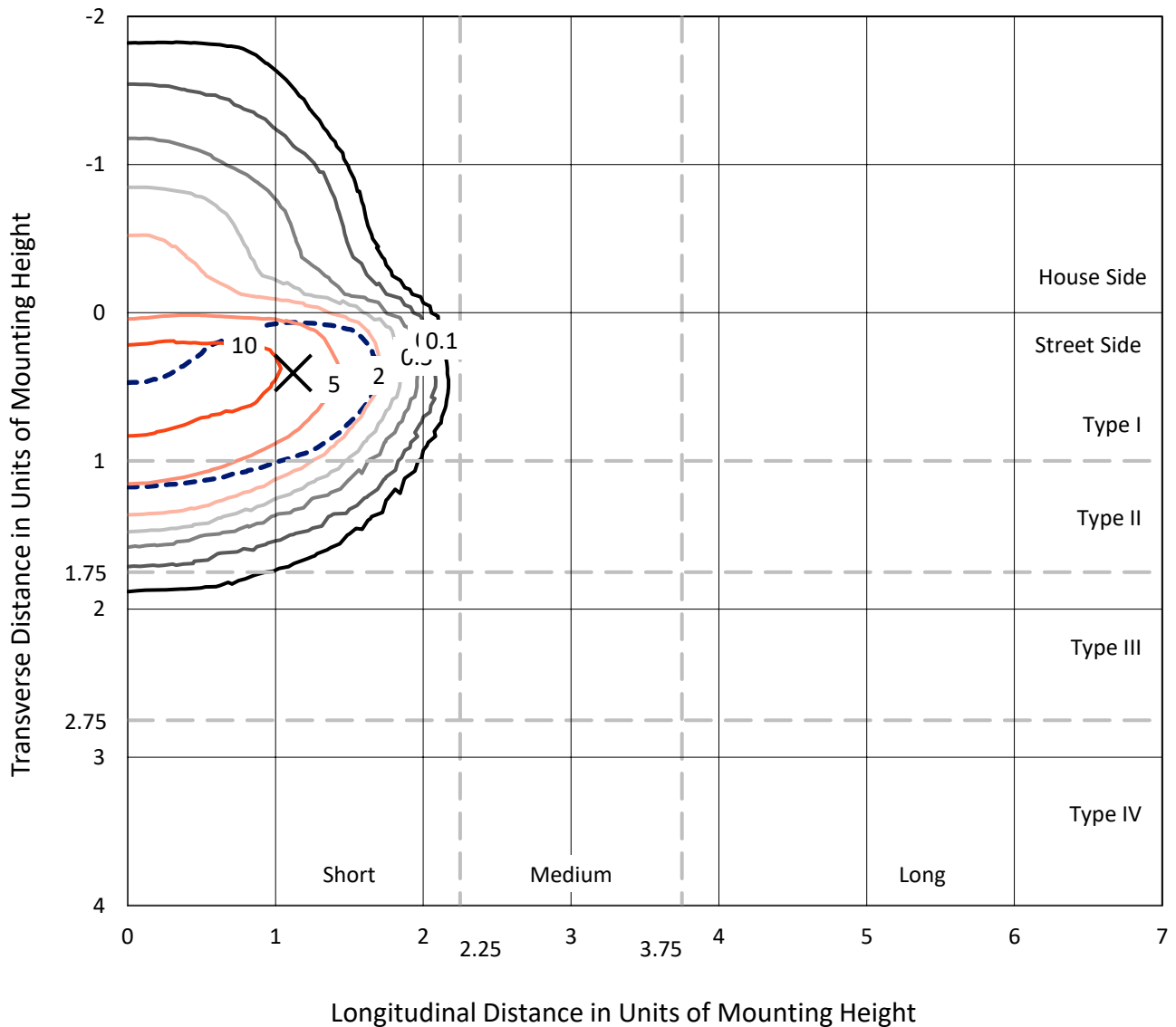
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

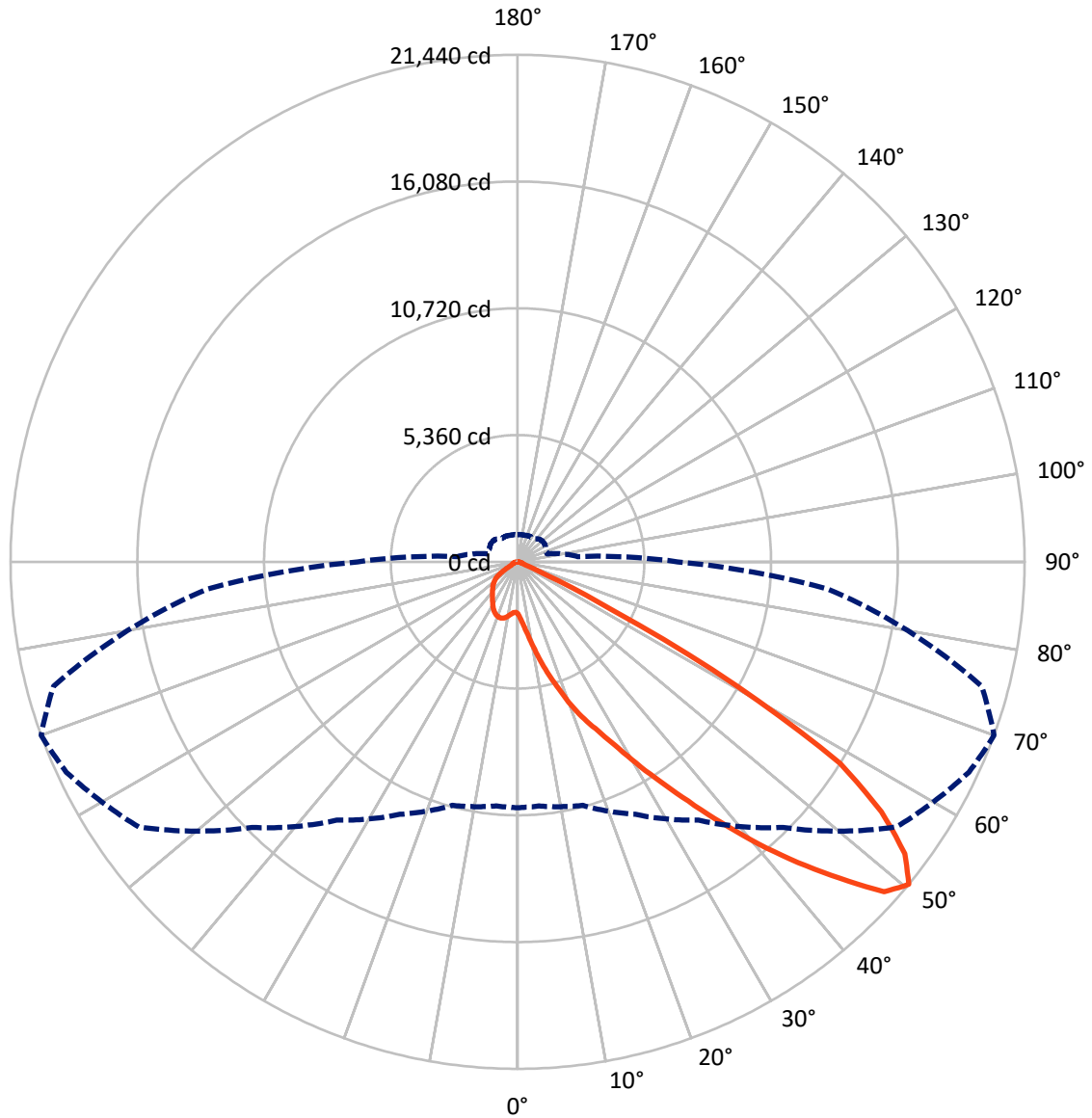
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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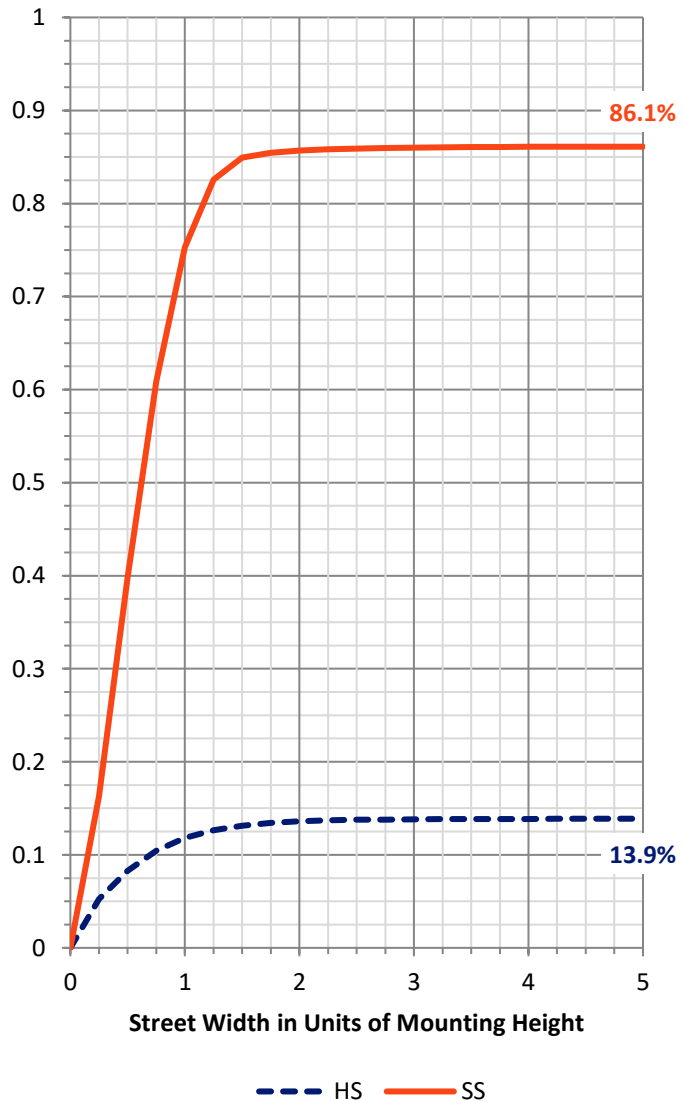
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2961.7	0.0	2961.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18245.3	0.0	18245.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	21207.0	0.0	21207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.3
10°-20°	1235.6	5.8
20°-30°	2592.1	12.2
30°-40°	4467.8	21.1
40°-50°	6529.7	30.8
50°-60°	5085.5	24.0
60°-70°	861.6	4.1
70°-80°	118.4	0.6
80°-90°	30.7	0.1
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°	21207.0	100.0
0°-180°	21207.0	100.0

Coefficient of Utilization



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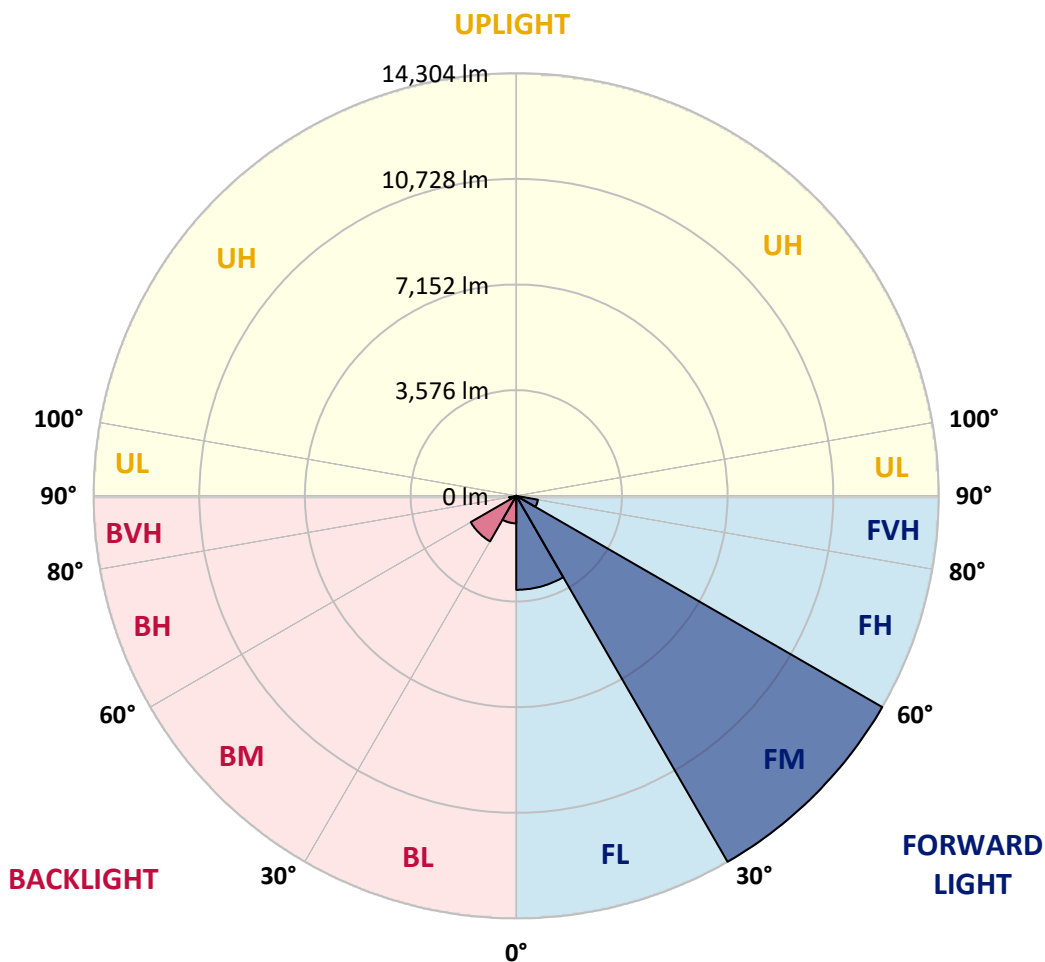
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3181.3	15.0			
FM (30°-60°)	14303.8	67.4			
FH (60°-80°)	746.1	3.5			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	932.0	4.4	B2/1000		
BM (30°-60°)	1779.3	8.4	B2/2500		
BH (60°-80°)	233.9	1.1	B1/500		G1/500
BVH (80°-90°)	16.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6
2.5°	2876.5	2855.6	2810.3	2726.6	2691.7	2608.1	2559.2	2465.1	2405.8	2339.6	2266.4
5°	4051.6	3943.5	3877.2	3783.1	3507.6	3336.8	3054.4	2813.8	2702.2	2580.2	2412.8
7.5°	5264.9	5195.2	5104.5	4902.3	4714.0	4358.4	3873.7	3343.8	3117.1	2907.9	2576.7
10°	6269.1	6073.8	6063.4	5913.5	5707.7	5282.4	4700.1	4041.1	3636.6	3329.8	2810.3
12.5°	6969.9	6792.1	6872.3	6854.9	6663.1	6272.6	5599.7	4728.0	4306.1	3828.4	3050.9
15°	7608.0	7534.8	7510.4	7489.5	7412.7	7123.3	6520.1	5564.8	4954.6	4379.3	3322.8
17.5°	8232.1	8043.8	8134.5	8151.9	8145.0	7883.5	7318.6	6359.8	5641.5	4961.6	3608.7
20°	8786.5	8803.9	8681.9	8657.5	8636.6	8626.1	8075.2	7147.8	6485.3	5571.8	3981.8
22.5°	9497.8	9375.8	9483.9	9414.1	9278.1	9194.5	8772.6	7845.1	7217.5	6307.5	4361.9
25°	10338.1	10435.7	10181.2	10153.3	10003.4	9714.0	9333.9	8626.1	7921.8	6990.9	4773.3
27.5°	11373.6	11202.8	11136.6	10983.1	10711.2	10589.1	10142.8	9431.6	8772.6	7709.1	5170.8
30°	12262.8	12217.4	11886.2	11704.9	11467.8	11464.3	10840.2	10522.9	9881.3	8835.3	5718.2
32.5°	12988.0	12789.3	12667.2	12541.7	12349.9	12402.2	11875.7	11708.4	11063.3	9881.3	6363.2
35°	13472.6	13329.7	13256.5	13064.7	13008.9	13242.5	13022.9	12953.1	12423.1	11352.7	7119.9
37.5°	13626.1	13671.4	13657.4	13416.9	13535.4	14166.5	14448.9	14267.6	13988.7	12904.3	7939.2
40°	13762.0	13793.4	13723.7	14006.1	14344.3	15062.6	16084.2	15784.3	15679.7	14476.8	9079.4
42.5°	13838.8	13814.3	13814.3	14302.5	14815.0	16258.5	17663.7	17464.9	17384.7	16150.4	10397.4
45°	13507.5	13270.4	13524.9	14187.4	15219.5	16847.8	18925.9	19201.3	19086.3	18141.4	11938.5
47.5°	12269.7	12416.2	12559.1	13444.8	14727.9	16666.5	19699.9	20637.8	20850.5	19815.0	12949.6
50°	10397.4	10366.0	10662.4	11778.1	13336.7	15885.5	19550.0	21052.8	21439.8	20317.1	13162.3
52.5°	7562.7	7792.8	8113.6	9222.3	11070.3	13863.2	17614.9	19982.3	20498.4	19699.9	13022.9
55°	4403.7	4149.2	4870.9	5808.9	7552.2	10456.6	14891.7	17712.5	18667.8	18577.2	12318.5
57.5°	1764.3	1708.5	1956.0	2636.0	3940.0	6481.8	10829.7	14553.5	16084.2	17015.1	10826.2
60°	774.0	756.6	889.1	1073.9	1610.9	2988.1	5923.9	9051.5	10648.4	11889.7	7451.1
62.5°	557.9	550.9	617.1	683.4	850.8	1300.5	2489.5	3647.1	4546.7	5491.6	3336.8
65°	449.8	467.2	512.5	547.4	627.6	721.7	878.7	1014.6	1244.8	1290.1	735.7
67.5°	366.1	380.1	421.9	460.2	474.2	390.5	404.5	355.6	355.6	317.3	254.5
70°	268.5	272.0	320.8	366.1	292.9	156.9	275.5	275.5	247.6	237.1	216.2
72.5°	198.7	202.2	240.6	226.6	115.1	97.6	202.2	223.1	202.2	191.8	174.3
75°	146.4	149.9	125.5	52.3	48.8	62.8	118.5	153.4	146.4	143.0	132.5
77.5°	27.9	20.9	17.4	24.4	34.9	52.3	76.7	94.1	97.6	104.6	97.6
80°	3.5	3.5	10.5	20.9	38.4	55.8	80.2	90.7	94.1	97.6	90.7
82.5°	0.0	3.5	10.5	20.9	38.4	52.3	69.7	80.2	87.2	90.7	87.2
85°	0.0	3.5	7.0	17.4	31.4	38.4	34.9	24.4	20.9	24.4	17.4
87.5°	0.0	0.0	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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°	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6
2.5°	2224.5	2210.6	2161.8	2109.5	2064.1	2085.1	2064.1	2046.7	2053.7	2046.7	2039.7
5°	2346.6	2283.8	2179.2	2133.9	2095.5	2092.0	2081.6	2078.1	2081.6	2081.6	2050.2
7.5°	2461.6	2360.5	2248.9	2200.1	2154.8	2158.3	2133.9	2133.9	2130.4	2112.9	2106.0
10°	2636.0	2500.0	2357.0	2269.8	2214.1	2203.6	2179.2	2154.8	2154.8	2154.8	2119.9
12.5°	2827.7	2656.9	2461.6	2360.5	2294.3	2242.0	2203.6	2196.6	2158.3	2151.3	2133.9
15°	2995.1	2778.9	2531.4	2391.9	2308.2	2238.5	2179.2	2140.8	2123.4	2112.9	2099.0
17.5°	3159.0	2883.5	2569.7	2391.9	2301.2	2221.0	2158.3	2123.4	2081.6	2088.5	2060.6
20°	3378.6	2995.1	2580.2	2346.6	2235.0	2158.3	2074.6	2057.2	2032.8	2011.8	2018.8
22.5°	3591.3	3075.3	2548.8	2290.8	2130.4	2039.7	1997.9	1977.0	1966.5	1949.1	1924.7
25°	3783.1	3162.4	2500.0	2189.7	2018.8	1952.6	1914.2	1910.7	1886.3	1886.3	1841.0
27.5°	3978.3	3193.8	2416.3	2071.1	1921.2	1882.8	1865.4	1858.4	1848.0	1823.5	1792.2
30°	4201.5	3204.3	2294.3	1949.1	1834.0	1792.2	1816.6	1834.0	1788.7	1743.4	1757.3
32.5°	4386.3	3179.9	2147.8	1834.0	1771.2	1750.3	1799.1	1816.6	1764.3	1715.5	1691.1
35°	4609.4	3120.6	2004.9	1743.4	1708.5	1750.3	1792.2	1792.2	1687.6	1628.3	1614.3
37.5°	4947.6	3054.4	1872.4	1666.6	1642.2	1729.4	1785.2	1746.8	1583.0	1509.7	1492.3
40°	5310.3	3012.5	1743.4	1589.9	1607.4	1694.5	1725.9	1607.4	1440.0	1394.7	1380.7
42.5°	5836.8	2928.8	1628.3	1523.7	1576.0	1645.7	1645.7	1433.0	1370.3	1345.9	1342.4
45°	6492.3	2869.6	1527.2	1467.9	1530.7	1548.1	1492.3	1342.4	1297.1	1290.1	1293.6
47.5°	6813.0	2754.5	1422.6	1401.7	1447.0	1450.5	1304.0	1269.2	1230.8	1220.3	1213.4
50°	6764.2	2548.8	1286.6	1314.5	1377.3	1342.4	1189.0	1195.9	1161.1	1157.6	1140.2
52.5°	6422.5	2224.5	1150.6	1216.9	1286.6	1185.5	1094.8	1087.9	1087.9	1042.5	1025.1
55°	5693.8	1792.2	986.7	1070.4	1154.1	997.2	972.8	965.8	948.4	906.5	896.1
57.5°	4508.3	1314.5	742.7	833.3	979.8	847.3	843.8	812.4	767.1	735.7	735.7
60°	2681.3	756.6	467.2	509.1	648.5	686.9	763.6	749.6	672.9	624.1	610.2
62.5°	1223.8	390.5	296.4	303.3	348.7	446.3	599.7	693.9	585.8	502.1	495.1
65°	411.4	289.4	244.1	233.6	240.6	268.5	359.1	491.6	467.2	387.0	373.1
67.5°	251.0	258.0	230.1	212.7	212.7	209.2	205.7	223.1	275.5	268.5	272.0
70°	216.2	237.1	212.7	191.8	184.8	174.3	146.4	122.0	104.6	122.0	129.0
72.5°	174.3	188.3	181.3	163.9	146.4	132.5	104.6	80.2	59.3	52.3	52.3
75°	129.0	139.5	146.4	125.5	111.6	94.1	76.7	52.3	31.4	20.9	20.9
77.5°	94.1	104.6	108.1	97.6	83.7	66.2	48.8	34.9	17.4	7.0	7.0
80°	80.2	94.1	104.6	97.6	87.2	62.8	45.3	24.4	13.9	3.5	3.5
82.5°	76.7	94.1	104.6	94.1	83.7	59.3	45.3	27.9	10.5	3.5	3.5
85°	17.4	24.4	31.4	38.4	45.3	45.3	34.9	20.9	10.5	3.5	3.5
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	3.5	3.5	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)