

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: P383092

Luminaire Tested: **GLEON-SA4B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17333.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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

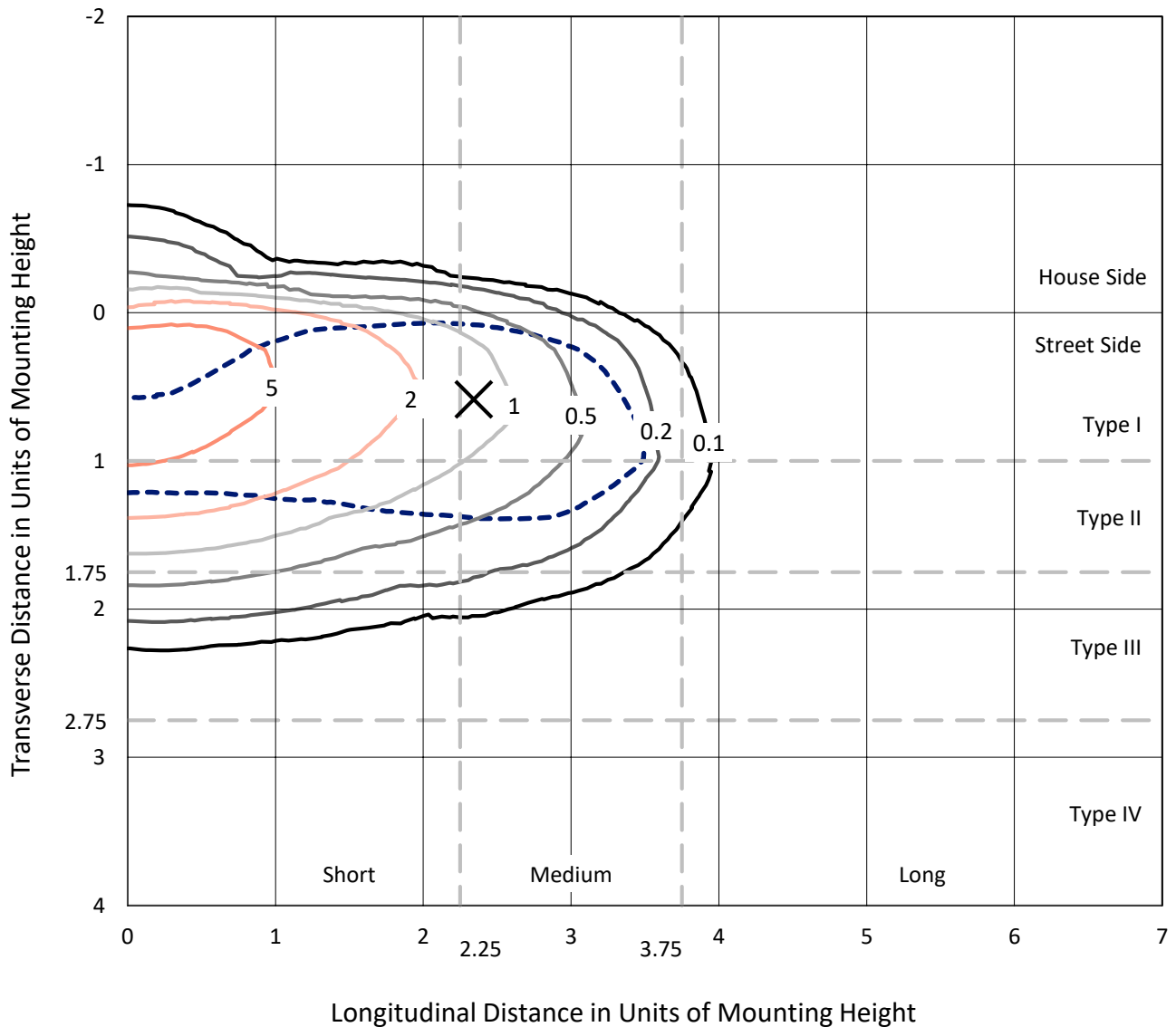




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Iso-Footcandle Lines of Horizontal Illumination

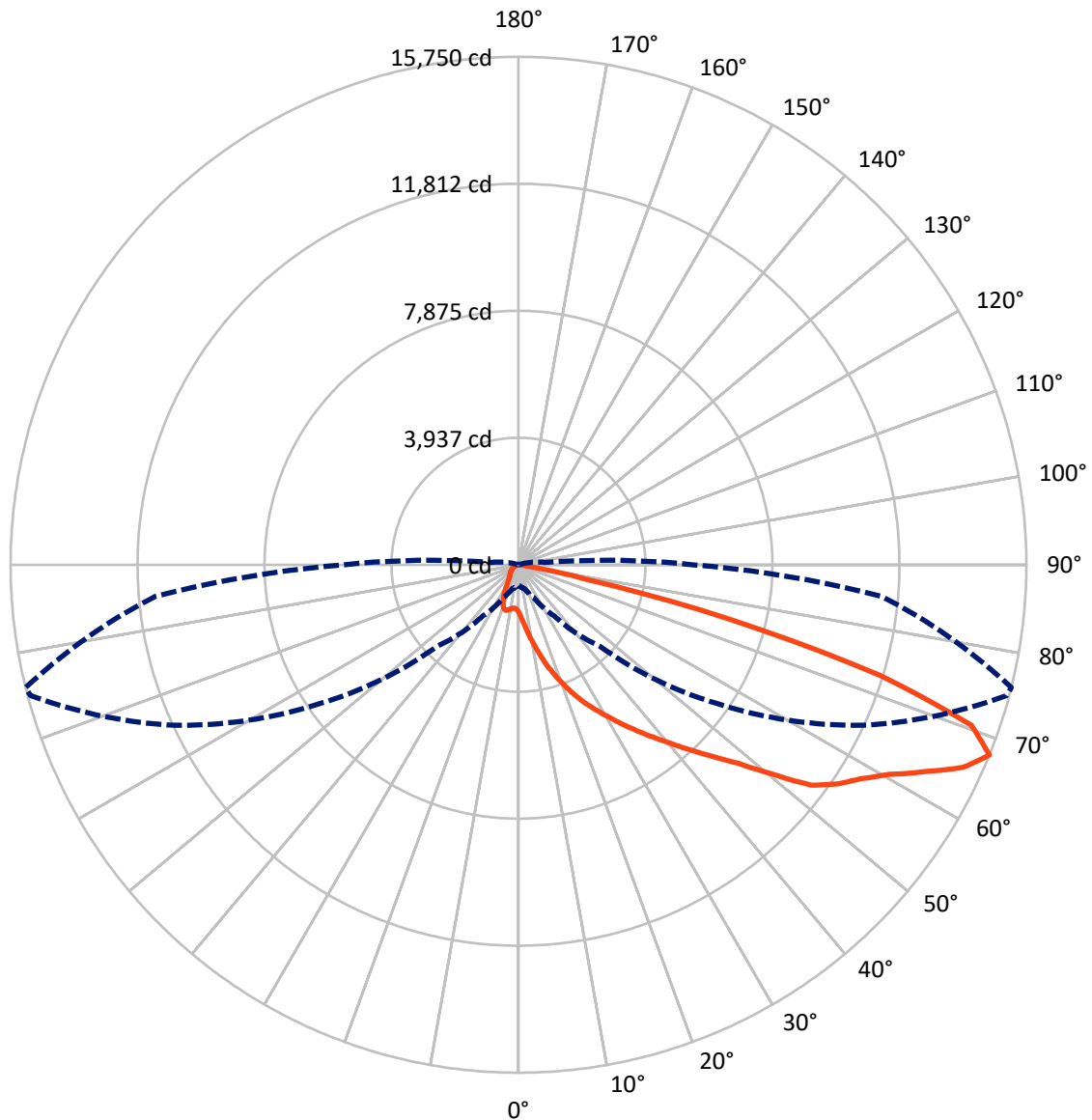
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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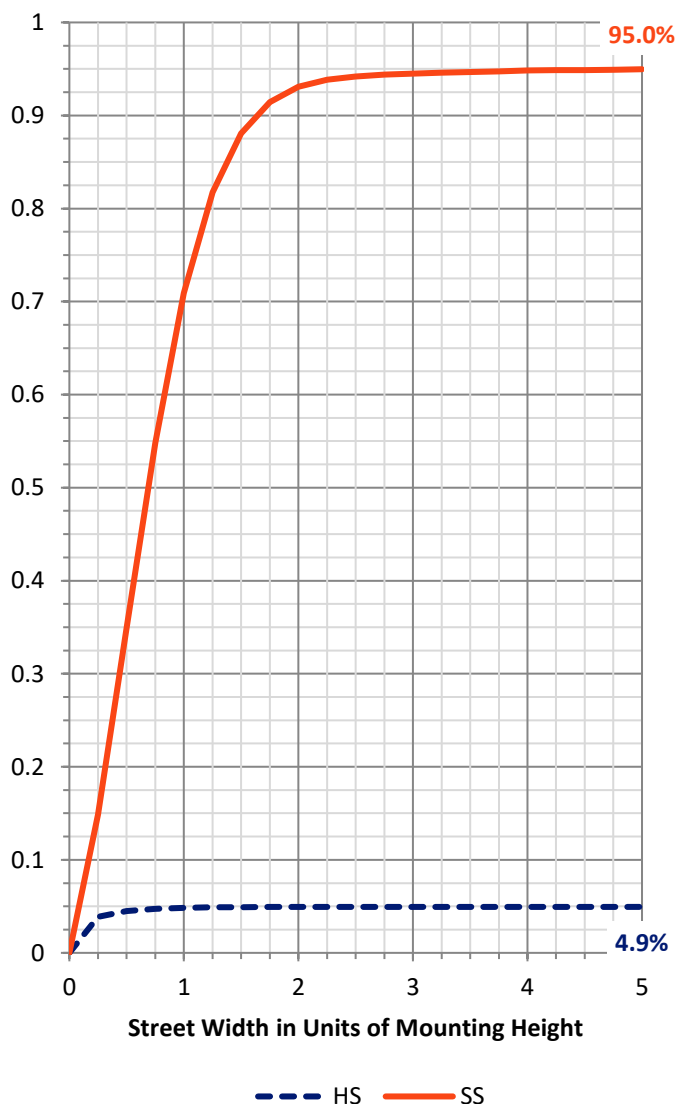
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.7	0.0	860.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16472.6	0.0	16472.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	17333.3	0.0	17333.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	724.8	4.2
20°-30°	1474.7	8.5
30°-40°	2559.6	14.8
40°-50°	3616.4	20.9
50°-60°	4101.2	23.7
60°-70°	3401.6	19.6
70°-80°	1232.1	7.1
80°-90°	40.0	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°	17333.3	100.0
0°-180°	17333.3	100.0

Coefficient of Utilization

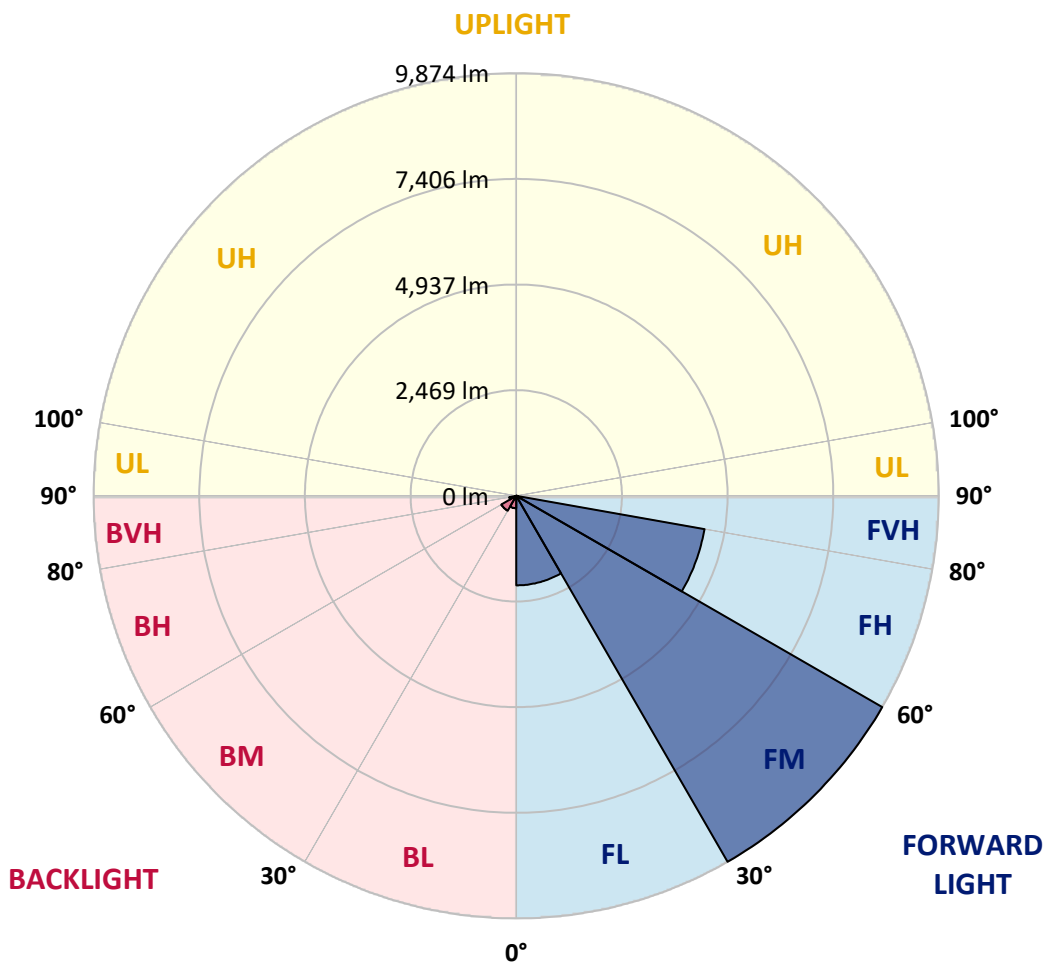


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.1	12.1			
FM (30°-60°)	9874.4	57.0			
FH (60°-80°)	4467.4	25.8			G2/5000
FVH (80°-90°)	38.7	0.2			G1/100
BL (0°-30°)	290.3	1.7	B1/500		
BM (30°-60°)	402.8	2.3	B1/1000		
BH (60°-80°)	166.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4
2.5°	2194.9	2145.5	2156.9	2125.0	2067.3	1948.8	1847.8	1752.1	1640.5	1636.7	1544.8
5°	2959.7	2918.0	2912.7	2848.1	2743.2	2542.0	2346.0	2122.8	1873.6	1855.5	1660.2
7.5°	3653.9	3620.5	3608.3	3531.6	3336.4	3140.4	2885.3	2557.2	2167.6	2134.2	1816.0
10°	4187.0	4171.1	4174.2	4119.5	3952.4	3770.1	3435.2	3016.7	2501.0	2449.3	2002.7
12.5°	4591.1	4594.9	4622.2	4588.8	4495.4	4360.2	4002.5	3506.5	2870.1	2799.5	2216.2
15°	4888.0	4907.0	4957.1	4999.0	4992.1	4875.2	4547.1	4004.0	3262.0	3183.8	2453.9
17.5°	5080.2	5101.4	5174.4	5267.1	5352.1	5324.7	5072.6	4484.0	3658.5	3568.1	2708.3
20°	5248.8	5273.9	5352.1	5474.4	5633.1	5667.3	5501.7	4949.6	4054.1	3944.0	2971.1
22.5°	5614.2	5613.4	5661.2	5732.7	5883.7	5971.9	5867.1	5381.7	4445.3	4330.6	3239.2
25°	6274.9	6249.8	6233.1	6176.9	6210.3	6265.0	6206.5	5785.7	4838.6	4722.5	3511.1
27.5°	7060.2	7075.4	6940.2	6789.0	6672.1	6615.9	6520.2	6160.2	5216.9	5089.3	3777.0
30°	7888.8	7893.4	7733.9	7541.0	7283.5	7070.1	6904.5	6517.9	5605.8	5466.8	4035.2
32.5°	8636.1	8606.5	8448.5	8185.8	7860.7	7620.7	7276.6	6917.4	6017.4	5883.0	4322.2
35°	9228.6	9193.6	9001.5	8762.2	8425.0	8183.5	7769.6	7316.1	6450.3	6319.0	4610.0
37.5°	9661.5	9620.5	9423.0	9176.9	8886.0	8745.5	8341.4	7749.8	6922.7	6781.5	4913.1
40°	9811.8	9776.1	9652.3	9472.3	9238.4	9206.5	8948.3	8248.8	7436.9	7286.5	5256.4
42.5°	9722.2	9687.3	9643.2	9582.5	9485.2	9515.6	9520.9	8817.7	8008.0	7859.9	5635.4
45°	9366.7	9335.6	9381.2	9470.0	9590.8	9741.2	10043.5	9429.0	8646.0	8488.0	6073.6
47.5°	8843.5	8820.6	8946.8	9168.5	9521.7	9936.4	10521.2	10071.5	9362.2	9215.6	6620.4
50°	8099.2	8095.3	8347.5	8752.4	9295.4	10030.5	11014.8	10802.2	10357.1	10203.0	7380.7
52.5°	6940.2	6947.8	7443.7	8091.6	8898.1	9966.7	11332.3	11740.9	11514.6	11354.4	8039.2
55°	5836.6	5882.3	6233.8	7168.1	8289.0	9729.8	11441.6	12179.1	12153.3	12001.4	8405.3
57.5°	4755.9	4838.6	5177.4	6050.0	7399.7	9183.8	11381.6	12369.0	12628.7	12512.5	8888.3
60°	3584.8	3622.8	4013.1	4828.9	6258.1	8187.3	10946.5	12472.3	13278.8	13198.4	9589.3
62.5°	2280.7	2375.6	2722.0	3508.9	4872.8	6803.5	10212.8	12470.8	14092.3	14136.3	10493.8
65°	1201.5	1312.4	1496.2	2174.4	3348.5	5257.9	9109.3	12353.8	15090.2	15151.7	11200.9
67.5°	647.8	679.8	776.9	1128.6	1942.0	3562.0	7487.8	11776.6	15668.3	15749.5	11299.7
70°	473.9	491.4	527.8	624.3	977.5	2068.9	5463.7	10468.0	14923.1	14892.7	10039.7
72.5°	363.8	391.2	418.5	457.2	562.0	1104.3	3401.7	8197.2	11907.2	11706.8	7504.5
75°	287.1	291.7	330.4	365.4	421.5	628.9	1510.6	4774.1	7267.6	6792.8	3891.6
77.5°	229.3	232.4	255.2	285.6	338.7	413.1	467.8	1878.2	2320.2	2070.4	844.5
80°	135.9	143.6	189.8	220.2	281.0	260.5	170.8	407.8	362.3	328.1	142.1
82.5°	75.9	82.1	107.1	173.9	195.9	124.5	85.1	110.1	85.1	82.8	40.2
85°	0.0	3.8	69.1	107.9	79.7	27.4	35.7	36.4	25.1	23.6	15.9
87.5°	0.0	0.0	21.2	20.5	3.1	4.6	8.4	12.1	9.9	9.9	8.4
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°	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4	1470.4
2.5°	1499.2	1458.2	1380.7	1304.8	1241.0	1188.6	1141.5	1122.5	1107.3	1105.1	1092.9
5°	1566.0	1483.3	1335.2	1213.6	1132.4	1074.6	1025.3	994.9	971.4	962.3	953.9
7.5°	1667.1	1541.8	1329.1	1189.4	1092.1	994.9	903.8	805.0	743.6	720.0	706.3
10°	1790.2	1619.2	1351.9	1182.5	1012.4	807.4	656.2	530.9	480.0	463.3	458.7
12.5°	1933.6	1715.7	1391.4	1140.0	842.3	573.4	452.6	410.2	398.7	393.4	393.4
15°	2098.5	1821.3	1419.5	1017.0	622.7	433.6	391.9	372.2	360.0	353.1	353.9
17.5°	2267.1	1924.6	1405.8	838.5	459.5	385.8	354.6	333.4	316.7	309.8	308.3
20°	2437.2	2020.2	1329.9	624.3	388.8	350.2	315.1	291.7	274.9	268.1	266.6
22.5°	2613.4	2101.5	1196.2	457.9	349.3	310.7	276.5	252.9	237.0	230.8	227.9
25°	2785.0	2167.6	1009.3	370.7	312.2	273.4	240.7	218.7	204.3	198.2	197.5
27.5°	2945.3	2209.4	792.9	327.3	279.5	240.0	210.3	190.6	178.5	173.9	173.2
30°	3089.6	2213.2	586.3	295.5	250.6	211.2	183.8	166.3	155.7	151.1	149.6
32.5°	3235.5	2181.2	426.8	266.6	224.0	186.0	159.5	145.8	138.2	134.4	134.4
35°	3372.9	2107.5	332.7	241.6	198.2	161.8	140.5	130.6	126.0	122.3	122.3
37.5°	3507.3	2002.0	282.5	219.5	173.9	141.2	123.8	117.7	113.9	110.1	110.1
40°	3644.0	1869.1	256.7	199.0	154.2	125.3	110.1	104.8	101.0	98.0	97.3
42.5°	3811.9	1715.7	240.0	180.0	136.8	110.9	97.3	91.1	88.1	85.1	83.6
45°	4006.3	1583.5	226.4	161.0	122.3	98.7	84.3	78.2	73.7	69.9	69.1
47.5°	4286.5	1487.9	208.1	140.5	108.6	85.8	72.9	66.0	59.2	55.4	54.7
50°	4644.2	1408.9	184.5	122.3	94.9	72.9	60.7	52.4	46.3	42.6	42.6
52.5°	4822.0	1305.6	163.3	106.3	79.7	61.5	49.4	39.5	36.4	32.7	32.7
55°	4893.4	1226.6	142.1	90.4	66.0	50.9	38.8	30.4	28.1	25.8	25.1
57.5°	5093.9	1203.7	123.8	76.7	54.7	40.2	29.6	22.8	21.2	18.3	18.3
60°	5416.7	1215.2	107.1	65.3	44.1	31.1	22.0	17.5	15.9	12.9	12.9
62.5°	5765.3	1200.8	90.4	56.2	34.2	22.8	15.2	12.9	12.9	7.6	6.8
65°	5832.1	1069.3	77.5	46.3	26.5	16.7	9.9	8.4	11.4	1.5	0.0
67.5°	5412.9	829.4	66.8	35.7	19.7	12.9	7.6	3.8	9.9	0.0	0.0
70°	4328.3	527.1	53.9	25.8	15.2	10.6	6.1	1.5	7.6	0.0	0.0
72.5°	3060.7	306.1	42.6	18.3	12.9	8.4	4.6	0.0	4.6	0.0	0.0
75°	1547.9	163.3	26.5	13.7	9.9	6.1	3.1	0.0	0.7	0.0	0.0
77.5°	334.9	75.9	16.7	9.9	6.8	3.8	1.5	0.0	0.0	0.0	0.0
80°	72.9	33.4	10.6	6.1	3.8	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	26.5	17.5	5.3	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.4	9.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	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)