

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: P383204

Luminaire Tested: **GLEON-SA5B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383204
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-SA5B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21475 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 210
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

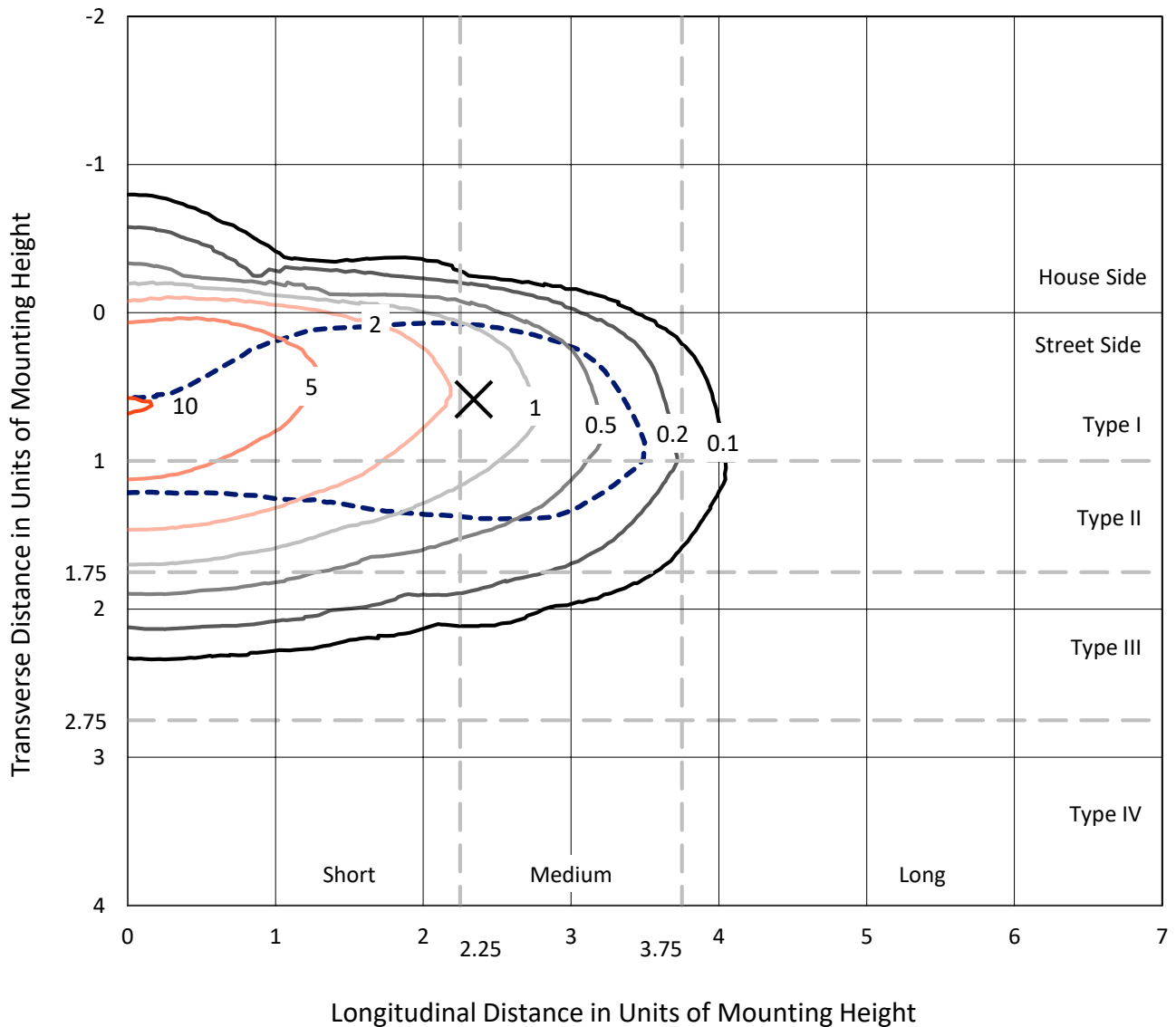




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Iso-Footcandle Lines of Horizontal Illumination

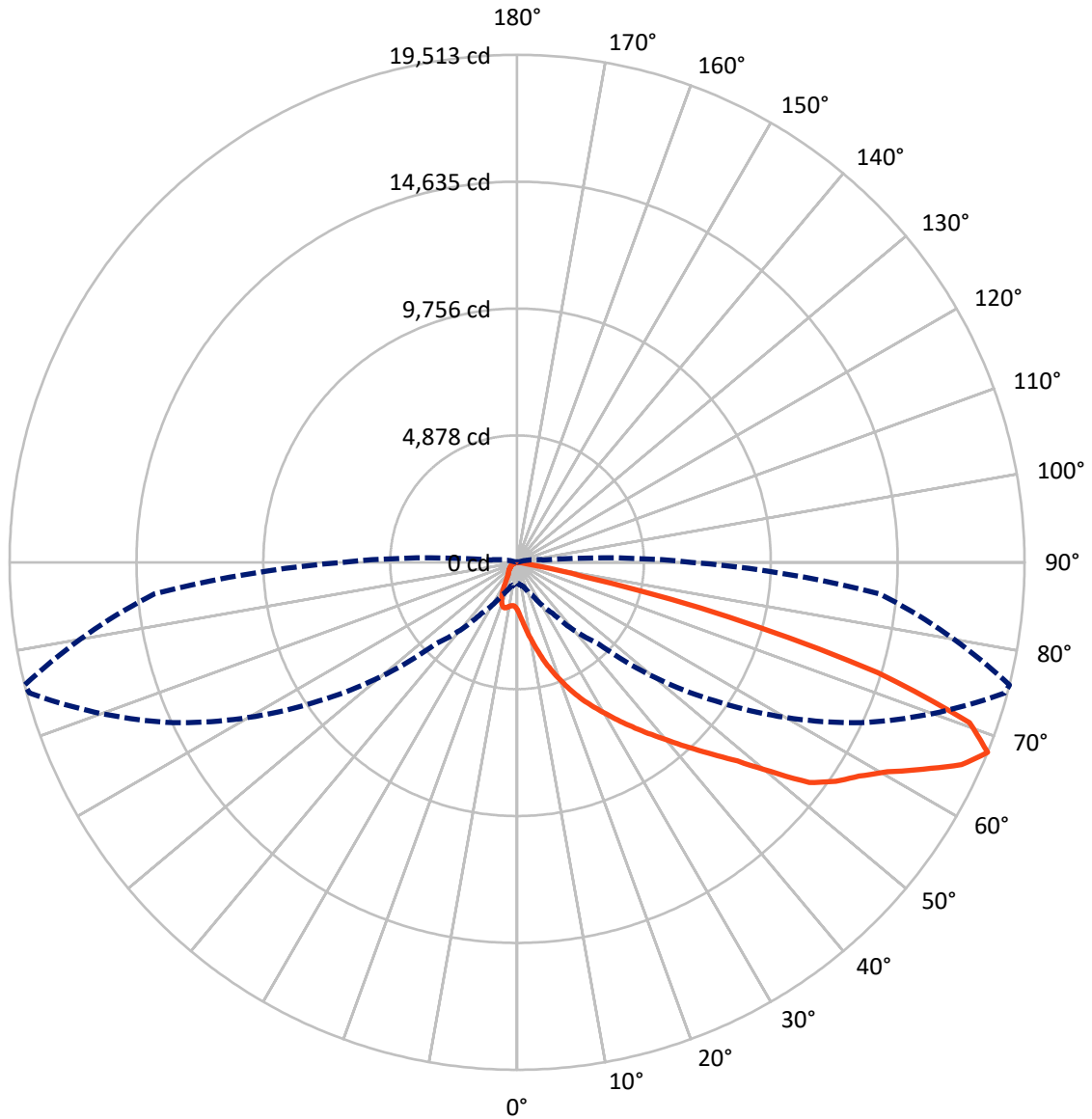
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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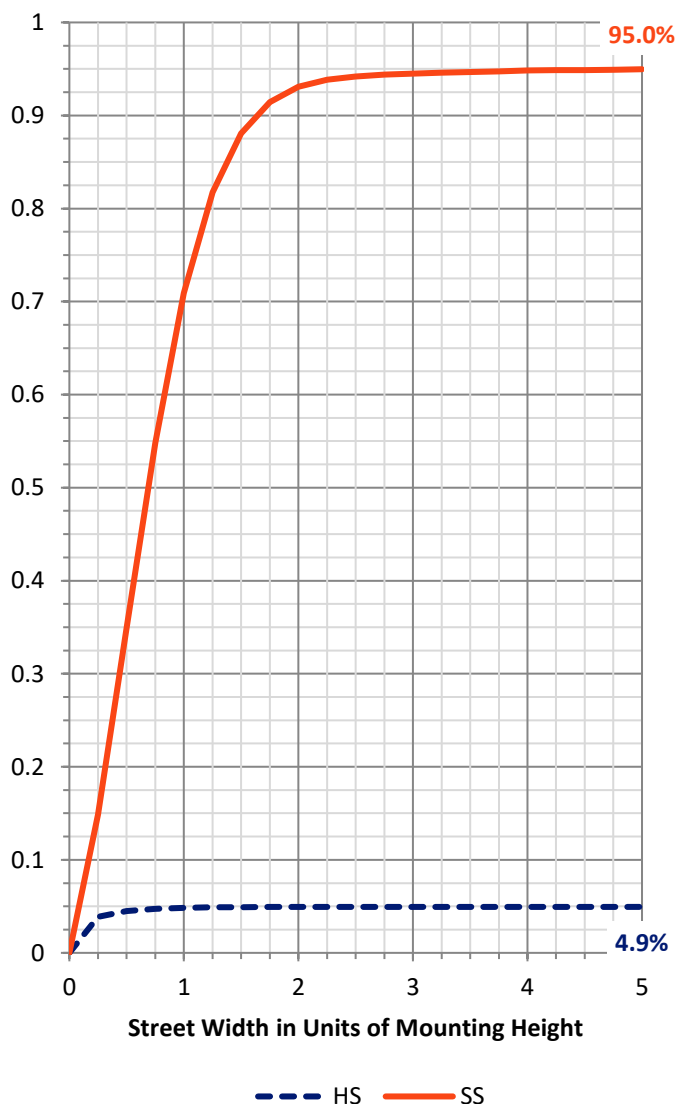
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1066.4	0.0	1066.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20408.6	0.0	20408.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	21475.0	0.0	21475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	1.1
10°-20°	898.0	4.2
20°-30°	1827.1	8.5
30°-40°	3171.2	14.8
40°-50°	4480.6	20.9
50°-60°	5081.2	23.7
60°-70°	4214.3	19.6
70°-80°	1526.6	7.1
80°-90°	49.5	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°	21475.0	100.0
0°-180°	21475.0	100.0

Coefficient of Utilization

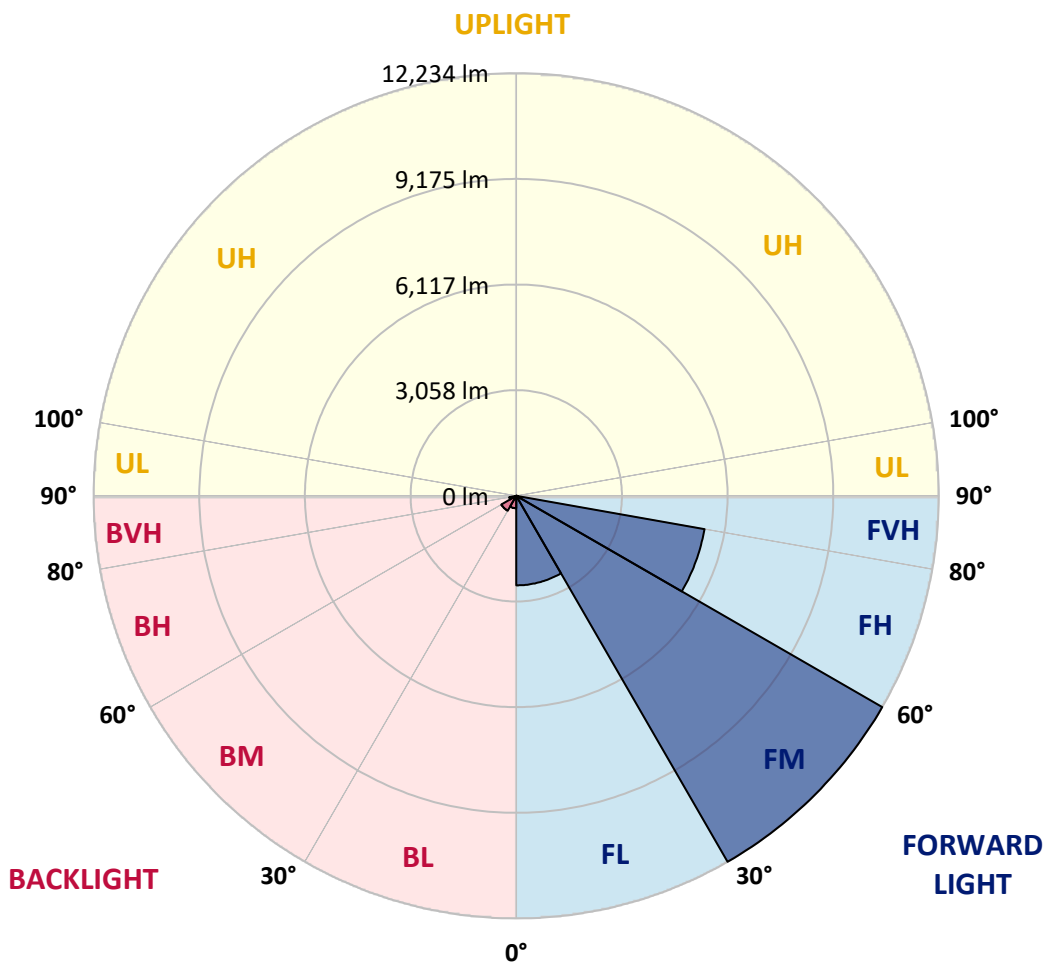


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.0	12.1			
FM (30°-60°)	12233.9	57.0			
FH (60°-80°)	5534.8	25.8			G3/7500
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	359.6	1.7	B1/500		
BM (30°-60°)	499.1	2.3	B1/1000		
BH (60°-80°)	206.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	2719.4	2658.2	2672.3	2632.8	2561.3	2414.5	2289.4	2170.8	2032.5	2027.8	1914.0
5°	3666.9	3615.1	3608.6	3528.6	3398.8	3149.4	2906.6	2629.9	2321.3	2298.8	2057.0
7.5°	4526.9	4485.6	4470.5	4375.5	4133.6	3890.9	3574.7	3168.2	2685.5	2644.1	2249.9
10°	5187.5	5167.8	5171.5	5103.8	4896.8	4671.0	4256.0	3737.5	3098.6	3034.6	2481.3
12.5°	5688.1	5692.8	5726.7	5685.3	5569.5	5402.0	4958.9	4344.5	3555.9	3468.3	2745.7
15°	6056.0	6079.6	6141.7	6193.4	6184.9	6040.1	5633.5	4960.8	4041.4	3944.5	3040.2
17.5°	6294.1	6320.5	6410.7	6525.6	6630.9	6597.0	6284.7	5555.5	4532.6	4420.7	3355.4
20°	6502.9	6534.1	6630.9	6782.4	6979.1	7021.4	6816.3	6132.3	5022.8	4886.4	3681.0
22.5°	6955.6	6954.7	7013.9	7102.4	7289.6	7398.8	7269.0	6667.6	5507.4	5365.3	4013.2
25°	7774.2	7743.1	7722.4	7652.8	7694.2	7762.0	7689.6	7168.3	5994.9	5850.9	4350.0
27.5°	8747.1	8766.0	8598.5	8411.2	8266.4	8196.7	8078.1	7632.2	6463.4	6305.4	4679.3
30°	9773.8	9779.4	9581.8	9342.8	9023.8	8759.4	8554.3	8075.3	6945.2	6773.0	4999.3
32.5°	10699.7	10663.0	10467.2	10141.7	9739.0	9441.6	9015.3	8570.2	7455.3	7288.7	5355.0
35°	11433.6	11390.3	11152.3	10855.9	10438.1	10138.9	9626.1	9064.2	7991.6	7828.8	5711.6
37.5°	11969.9	11919.2	11674.5	11369.6	11009.2	10835.2	10334.6	9601.6	8576.9	8401.8	6087.1
40°	12156.2	12112.1	11958.6	11735.6	11445.8	11406.3	11086.3	10219.7	9213.8	9027.5	6512.4
42.5°	12045.2	12002.0	11947.4	11872.1	11751.7	11789.3	11795.9	10924.5	9921.4	9738.0	6981.9
45°	11604.8	11566.3	11622.7	11732.8	11882.4	12068.8	12443.2	11682.0	10711.9	10516.1	7524.9
47.5°	10956.6	10928.4	11084.5	11359.3	11796.8	12310.6	13035.1	12478.1	11599.3	11417.6	8202.4
50°	10034.4	10029.7	10342.1	10843.6	11516.4	12427.2	13646.7	13383.3	12831.9	12640.8	9144.3
52.5°	8598.5	8607.9	9222.3	10025.0	11024.3	12348.2	14040.1	14546.3	14265.9	14067.4	9960.1
55°	7231.3	7287.8	7723.4	8880.8	10269.7	12054.6	14175.5	15089.2	15057.3	14869.1	10413.6
57.5°	5892.3	5994.9	6414.5	7495.7	9167.7	11378.1	14101.2	15324.5	15646.3	15502.3	11012.1
60°	4441.3	4488.4	4972.0	5982.6	7753.6	10143.5	13562.0	15452.4	16451.8	16352.0	11880.6
62.5°	2825.7	2943.3	3372.4	4347.3	6037.2	8429.1	12653.1	15450.6	17459.5	17514.1	13001.2
65°	1488.6	1626.0	1853.7	2693.9	4148.7	6514.3	11285.9	15305.7	18696.0	18772.2	13877.3
67.5°	802.6	842.1	962.6	1398.3	2406.0	4413.1	9276.9	14590.6	19412.1	19512.7	13999.6
70°	587.2	608.8	653.9	773.5	1211.0	2563.2	6769.3	12969.3	18488.9	18451.3	12438.6
72.5°	450.7	484.6	518.5	566.5	696.3	1368.2	4214.6	10155.8	14752.4	14503.9	9297.6
75°	355.7	361.3	409.3	452.6	522.2	779.1	1871.6	5914.9	9004.1	8416.0	4821.5
77.5°	284.2	287.9	316.2	353.8	419.7	511.9	579.6	2327.0	2874.7	2565.0	1046.3
80°	168.4	177.8	235.2	272.9	348.1	322.8	211.7	505.3	448.8	406.5	176.0
82.5°	94.1	101.6	132.7	215.5	242.8	154.4	105.4	136.5	105.4	102.6	49.8
85°	0.0	4.8	85.6	133.6	98.8	33.9	44.2	45.2	31.0	29.2	19.7
87.5°	0.0	0.0	26.4	25.4	3.7	5.7	10.3	15.1	12.2	12.2	10.3
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°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1857.4	1806.6	1710.7	1616.6	1537.5	1472.6	1414.3	1390.7	1371.9	1369.1	1354.0
5°	1940.2	1837.7	1654.2	1503.6	1403.0	1331.5	1270.3	1232.6	1203.5	1192.2	1181.9
7.5°	2065.4	1910.1	1646.7	1473.5	1353.1	1232.6	1119.7	997.4	921.2	892.0	875.1
10°	2217.8	2006.1	1674.9	1465.0	1254.3	1000.2	813.0	657.8	594.7	574.0	568.3
12.5°	2395.7	2125.6	1723.8	1412.4	1043.5	710.4	560.8	508.2	494.0	487.4	487.4
15°	2599.9	2256.4	1758.7	1259.9	771.6	537.3	485.5	461.1	446.0	437.5	438.5
17.5°	2808.8	2384.4	1741.7	1038.9	569.3	478.0	439.4	413.0	392.4	383.9	382.0
20°	3019.5	2503.0	1647.6	773.5	481.8	433.8	390.5	361.3	340.7	332.2	330.2
22.5°	3237.9	2603.7	1482.0	567.4	432.8	384.8	342.5	313.4	293.6	286.1	282.3
25°	3450.5	2685.5	1250.5	459.2	386.8	338.7	298.3	271.0	253.1	245.6	244.6
27.5°	3649.1	2737.3	982.3	405.6	346.3	297.3	260.6	236.1	221.1	215.5	214.5
30°	3827.8	2741.9	726.4	366.0	310.5	261.6	227.7	206.1	192.9	187.2	185.4
32.5°	4008.4	2702.4	528.8	330.2	277.6	230.6	197.6	180.6	171.2	166.6	166.6
35°	4178.8	2611.1	412.1	299.2	245.6	200.5	174.1	161.8	156.2	151.5	151.5
37.5°	4345.4	2480.3	350.1	271.9	215.5	175.0	153.3	145.9	141.1	136.5	136.5
40°	4514.7	2315.7	318.0	246.5	191.1	155.3	136.5	129.9	125.1	121.4	120.4
42.5°	4722.7	2125.6	297.3	223.0	169.4	137.4	120.4	112.9	109.2	105.4	103.5
45°	4963.6	1961.9	280.4	199.4	151.5	122.3	104.4	96.9	91.3	86.5	85.6
47.5°	5310.8	1843.3	257.9	174.1	134.5	106.3	90.4	81.9	73.4	68.7	67.7
50°	5754.0	1745.4	228.7	151.5	117.7	90.4	75.3	64.9	57.4	52.7	52.7
52.5°	5974.2	1617.5	202.3	131.7	98.8	76.2	61.2	48.9	45.2	40.4	40.4
55°	6062.6	1519.6	176.0	112.0	81.9	63.1	48.0	37.6	34.8	32.0	31.0
57.5°	6311.0	1491.4	153.3	95.0	67.7	49.8	36.7	28.2	26.4	22.5	22.5
60°	6711.0	1505.6	132.7	81.0	54.6	38.6	27.3	21.6	19.7	16.0	16.0
62.5°	7142.8	1487.7	112.0	69.6	42.4	28.2	18.8	16.0	16.0	9.4	8.5
65°	7225.6	1324.8	95.9	57.4	33.0	20.7	12.2	10.3	14.2	1.9	0.0
67.5°	6706.2	1027.5	82.8	44.2	24.5	16.0	9.4	4.8	12.2	0.0	0.0
70°	5362.5	653.0	66.8	32.0	18.8	13.1	7.5	1.9	9.4	0.0	0.0
72.5°	3792.1	379.2	52.7	22.5	16.0	10.3	5.7	0.0	5.7	0.0	0.0
75°	1917.7	202.3	33.0	17.0	12.2	7.5	3.7	0.0	0.9	0.0	0.0
77.5°	415.0	94.1	20.7	12.2	8.5	4.8	1.9	0.0	0.0	0.0	0.0
80°	90.4	41.4	13.1	7.5	4.8	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	33.0	21.6	6.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	11.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	3.7	0.9	0.9	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)