

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: P321407

Luminaire Tested: **GLEON-SA3C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321407
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-SA3C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 12813 lumens
Efficiency: N/A
Efficacy: 77.2 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): 166
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

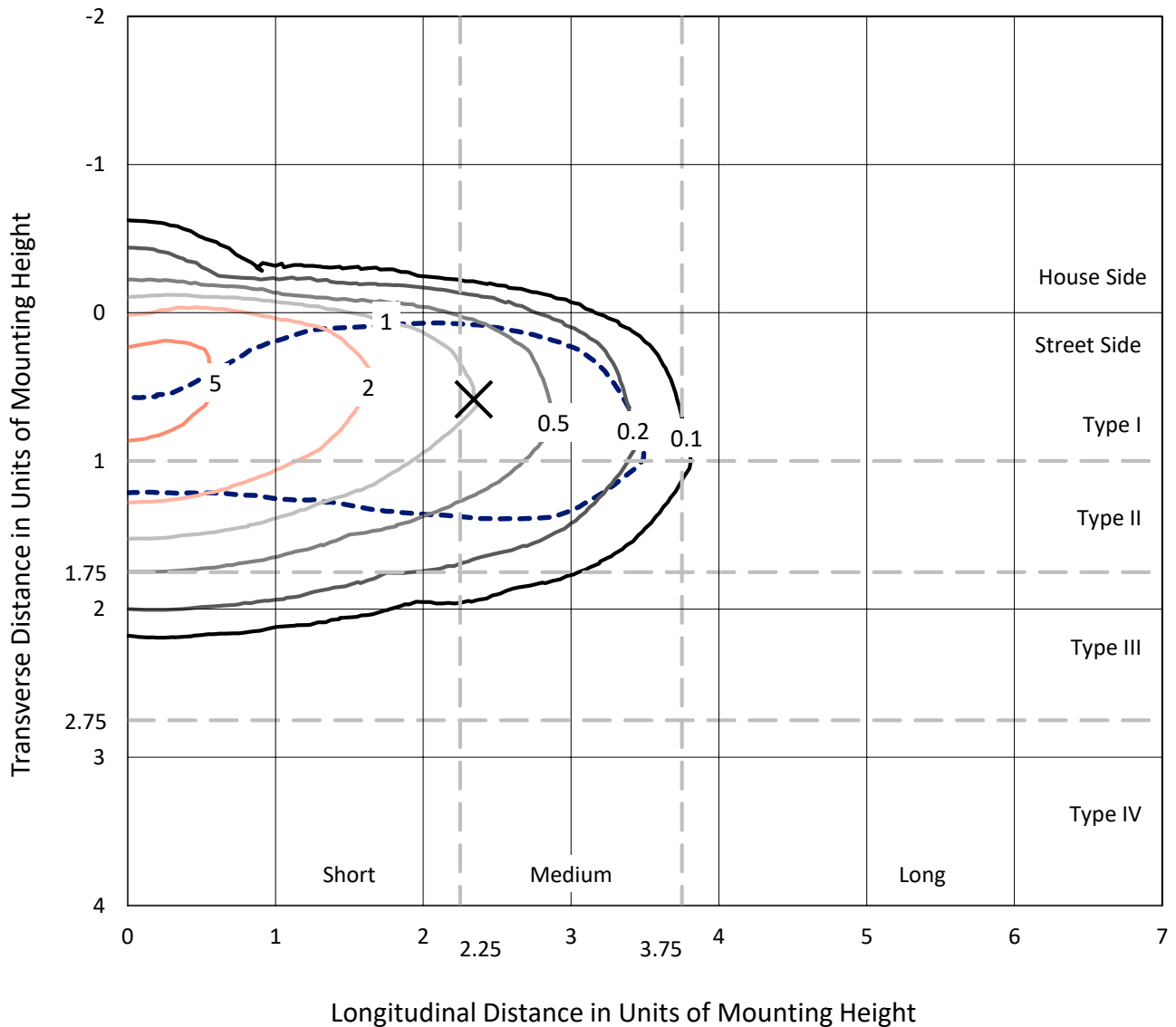




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Iso-Footcandle Lines of Horizontal Illumination

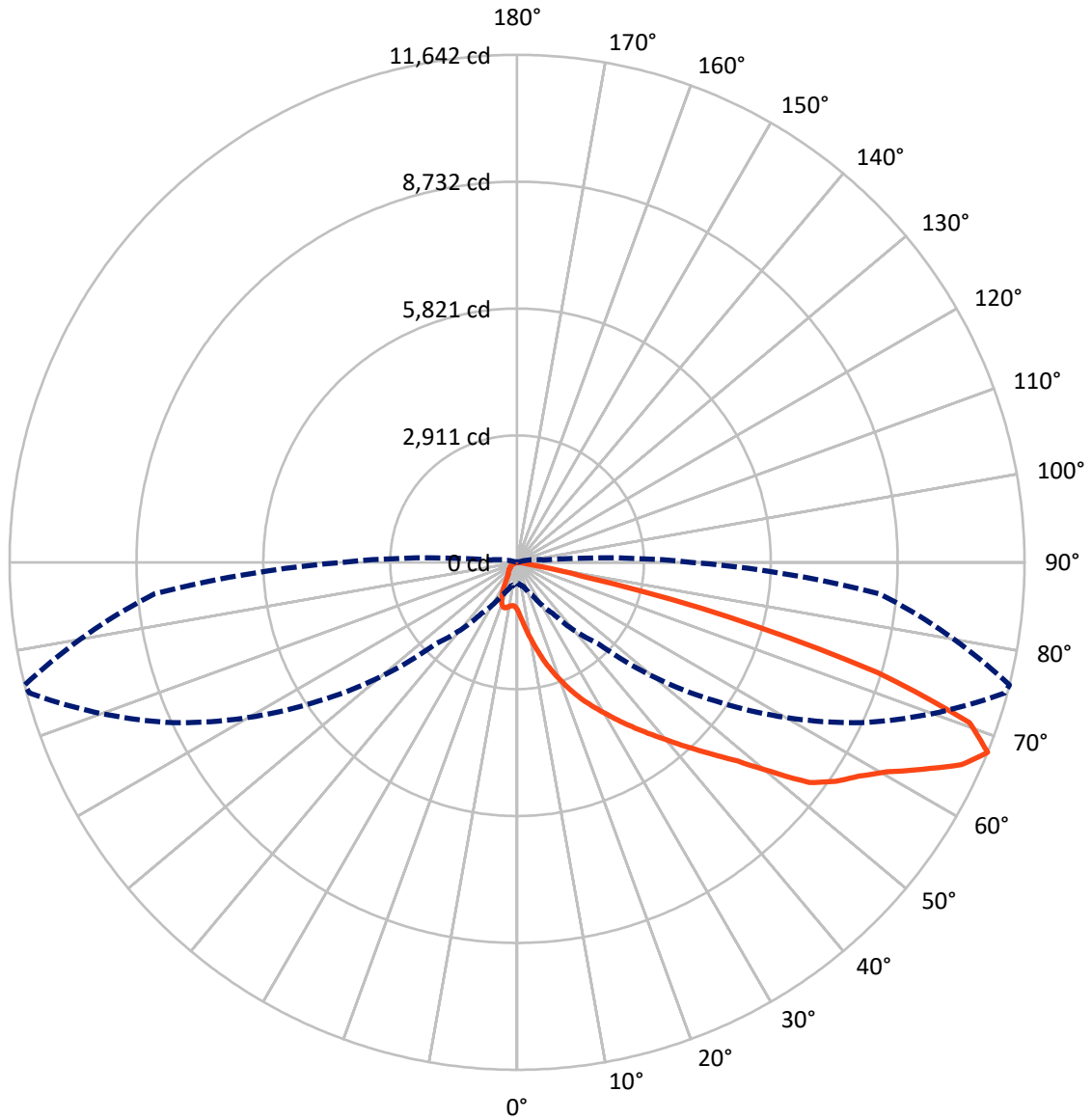
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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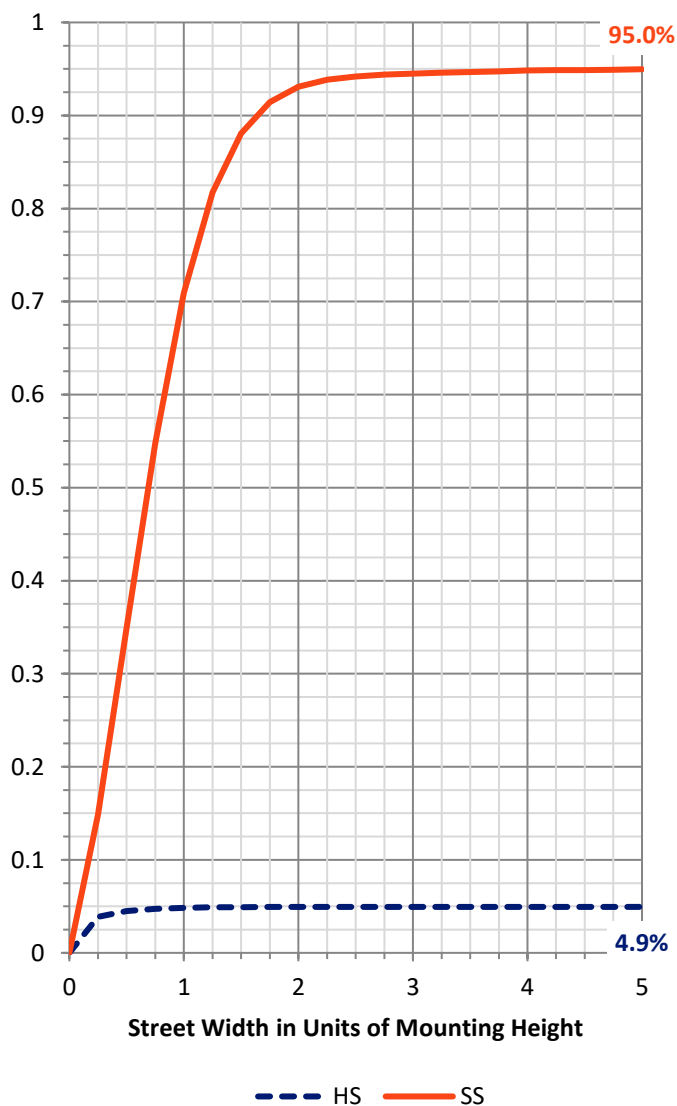
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.3	0.0	636.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12176.7	0.0	12176.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	12813.0	0.0	12813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.1
10°-20°	535.8	4.2
20°-30°	1090.1	8.5
30°-40°	1892.1	14.8
40°-50°	2673.3	20.9
50°-60°	3031.7	23.7
60°-70°	2514.5	19.6
70°-80°	910.8	7.1
80°-90°	29.5	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°	12813.0	100.0
0°-180°	12813.0	100.0

Coefficient of Utilization



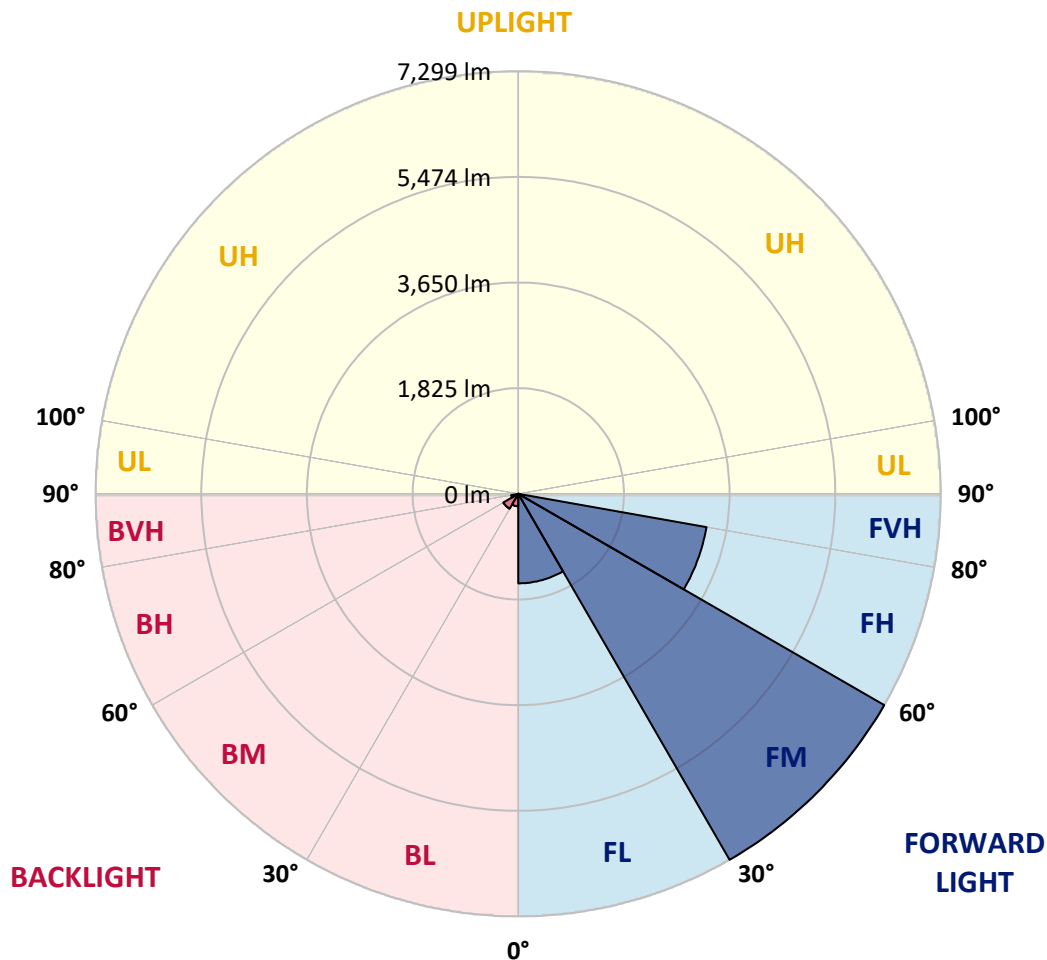
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.5	12.1			
FM (30°-60°)	7299.3	57.0			
FH (60°-80°)	3302.3	25.8			G2/5000
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	214.6	1.7	B1/500		
BM (30°-60°)	297.8	2.3	B1/1000		
BH (60°-80°)	123.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1622.5	1586.0	1594.4	1570.9	1528.2	1440.6	1365.9	1295.2	1212.7	1209.9	1141.9
5°	2187.9	2157.0	2153.1	2105.3	2027.9	1879.1	1734.2	1569.2	1385.0	1371.6	1227.3
7.5°	2701.0	2676.3	2667.3	2610.6	2466.3	2321.5	2132.8	1890.3	1602.3	1577.6	1342.4
10°	3095.1	3083.3	3085.6	3045.2	2921.6	2786.9	2539.3	2230.0	1848.8	1810.6	1480.5
12.5°	3393.8	3396.6	3416.8	3392.1	3323.1	3223.1	2958.7	2592.1	2121.6	2069.4	1638.2
15°	3613.3	3627.3	3664.4	3695.3	3690.2	3603.8	3361.2	2959.8	2411.3	2353.5	1814.0
17.5°	3755.4	3771.1	3825.0	3893.5	3956.3	3936.1	3749.7	3314.6	2704.4	2637.6	2002.0
20°	3880.0	3898.5	3956.3	4046.7	4164.1	4189.3	4066.9	3658.8	2996.9	2915.5	2196.3
22.5°	4150.0	4149.5	4184.8	4237.6	4349.3	4414.5	4337.0	3978.2	3286.0	3201.2	2394.5
25°	4638.5	4619.9	4607.6	4566.0	4590.7	4631.2	4587.9	4276.9	3576.8	3490.9	2595.5
27.5°	5219.0	5230.2	5130.3	5018.6	4932.1	4890.5	4819.8	4553.7	3856.4	3762.1	2792.0
30°	5831.5	5834.9	5717.0	5574.4	5384.0	5226.3	5103.9	4818.1	4143.9	4041.1	2982.8
32.5°	6383.9	6362.0	6245.3	6051.0	5810.7	5633.3	5379.0	5113.4	4448.1	4348.8	3195.1
35°	6821.8	6796.0	6654.0	6477.1	6227.9	6049.3	5743.3	5408.2	4768.2	4671.0	3407.8
37.5°	7141.9	7111.5	6965.6	6783.7	6568.6	6464.8	6166.1	5728.8	5117.4	5012.9	3631.8
40°	7253.0	7226.6	7135.1	7002.1	6829.1	6805.6	6614.7	6097.6	5497.4	5386.3	3885.6
42.5°	7186.8	7160.9	7128.4	7083.5	7011.6	7034.1	7038.0	6518.1	5919.6	5810.2	4165.8
45°	6924.0	6901.0	6934.7	7000.4	7089.6	7200.8	7424.2	6970.1	6391.2	6274.5	4489.7
47.5°	6537.2	6520.4	6613.6	6777.5	7038.6	7345.1	7777.4	7445.0	6920.7	6812.3	4893.9
50°	5987.0	5984.2	6170.6	6469.8	6871.2	7414.7	8142.3	7985.1	7656.1	7542.1	5455.9
52.5°	5130.3	5135.9	5502.5	5981.4	6577.6	7367.5	8377.0	8679.0	8511.7	8393.3	5942.7
55°	4314.5	4348.2	4608.2	5298.7	6127.4	7192.4	8457.8	9003.0	8983.9	8871.6	6213.3
57.5°	3515.6	3576.8	3827.2	4472.3	5469.9	6788.7	8413.5	9143.3	9335.3	9249.4	6570.3
60°	2649.9	2678.0	2966.6	3569.5	4626.1	6052.1	8091.8	9219.7	9815.9	9756.4	7088.5
62.5°	1686.0	1756.1	2012.1	2593.8	3602.1	5029.2	7549.4	9218.6	10417.2	10449.8	7757.2
65°	888.2	970.1	1106.0	1607.4	2475.3	3886.7	6733.7	9132.1	11154.9	11200.4	8279.9
67.5°	478.9	502.5	574.3	834.3	1435.6	2633.1	5535.1	8705.4	11582.1	11642.2	8352.8
70°	350.3	363.2	390.2	461.5	722.6	1529.3	4038.9	7738.1	11031.4	11008.9	7421.4
72.5°	268.9	289.1	309.3	338.0	415.5	816.3	2514.6	6059.4	8802.0	8653.8	5547.4
75°	212.2	215.6	244.2	270.0	311.6	464.9	1116.7	3529.1	5372.2	5021.4	2876.7
77.5°	169.5	171.8	188.6	211.1	250.4	305.4	345.8	1388.4	1715.1	1530.4	624.3
80°	100.5	106.1	140.4	162.8	207.7	192.6	126.3	301.5	267.8	242.5	105.0
82.5°	56.1	60.6	79.2	128.6	144.8	92.1	62.9	81.4	62.9	61.2	29.8
85°	0.0	2.8	51.1	79.7	58.9	20.2	26.4	26.9	18.5	17.4	11.8
87.5°	0.0	0.0	15.7	15.2	2.2	3.4	6.2	9.0	7.3	7.3	6.2
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°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1108.2	1077.9	1020.7	964.5	917.4	878.6	843.8	829.8	818.6	816.9	807.9
5°	1157.7	1096.5	987.0	897.2	837.1	794.4	757.9	735.5	718.1	711.3	705.1
7.5°	1232.3	1139.7	982.5	879.2	807.3	735.5	668.1	595.1	549.6	532.2	522.1
10°	1323.3	1197.0	999.3	874.1	748.4	596.8	485.1	392.4	354.8	342.5	339.1
12.5°	1429.4	1268.3	1028.5	842.7	622.6	423.9	334.6	303.2	294.7	290.8	290.8
15°	1551.2	1346.3	1049.3	751.7	460.4	320.6	289.7	275.1	266.1	261.1	261.6
17.5°	1675.8	1422.6	1039.2	619.8	339.7	285.2	262.2	246.5	234.1	229.1	227.9
20°	1801.6	1493.4	983.1	461.5	287.4	258.8	233.0	215.6	203.2	198.2	197.1
22.5°	1931.9	1553.5	884.2	338.5	258.3	229.6	204.4	187.0	175.2	170.7	168.4
25°	2058.7	1602.3	746.1	274.0	230.7	202.1	178.0	161.7	151.0	146.5	146.0
27.5°	2177.2	1633.2	586.1	242.0	206.6	177.4	155.5	140.9	131.9	128.6	128.0
30°	2283.9	1636.0	433.4	218.4	185.3	156.1	135.9	123.0	115.1	111.7	110.6
32.5°	2391.7	1612.4	315.5	197.1	165.6	137.5	117.9	107.8	102.2	99.4	99.4
35°	2493.3	1557.9	245.9	178.5	146.5	119.6	103.9	96.6	93.2	90.4	90.4
37.5°	2592.6	1479.9	208.8	162.3	128.6	104.4	91.5	87.0	84.2	81.4	81.4
40°	2693.7	1381.7	189.8	147.1	114.0	92.6	81.4	77.5	74.7	72.4	71.9
42.5°	2817.8	1268.3	177.4	133.1	101.1	82.0	71.9	67.4	65.1	62.9	61.8
45°	2961.5	1170.6	167.3	119.0	90.4	73.0	62.3	57.8	54.5	51.7	51.1
47.5°	3168.7	1099.8	153.8	103.9	80.3	63.4	53.9	48.8	43.8	41.0	40.4
50°	3433.1	1041.4	136.4	90.4	70.2	53.9	44.9	38.7	34.2	31.4	31.4
52.5°	3564.5	965.1	120.7	78.6	58.9	45.5	36.5	29.2	26.9	24.1	24.1
55°	3617.2	906.7	105.0	66.8	48.8	37.6	28.6	22.5	20.8	19.1	18.5
57.5°	3765.5	889.9	91.5	56.7	40.4	29.8	21.9	16.8	15.7	13.5	13.5
60°	4004.1	898.3	79.2	48.3	32.6	23.0	16.3	12.9	11.8	9.5	9.5
62.5°	4261.8	887.6	66.8	41.5	25.3	16.8	11.2	9.5	9.5	5.6	5.1
65°	4311.2	790.5	57.3	34.2	19.6	12.4	7.3	6.2	8.4	1.1	0.0
67.5°	4001.3	613.1	49.4	26.4	14.6	9.5	5.6	2.8	7.3	0.0	0.0
70°	3199.5	389.6	39.9	19.1	11.2	7.9	4.5	1.1	5.6	0.0	0.0
72.5°	2262.5	226.3	31.4	13.5	9.5	6.2	3.4	0.0	3.4	0.0	0.0
75°	1144.2	120.7	19.6	10.1	7.3	4.5	2.2	0.0	0.6	0.0	0.0
77.5°	247.6	56.1	12.4	7.3	5.1	2.8	1.1	0.0	0.0	0.0	0.0
80°	53.9	24.7	7.9	4.5	2.8	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.6	12.9	3.9	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	6.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.2	0.6	0.6	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)