

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: P322375

Luminaire Tested: **GLEON-SA1D-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4352 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

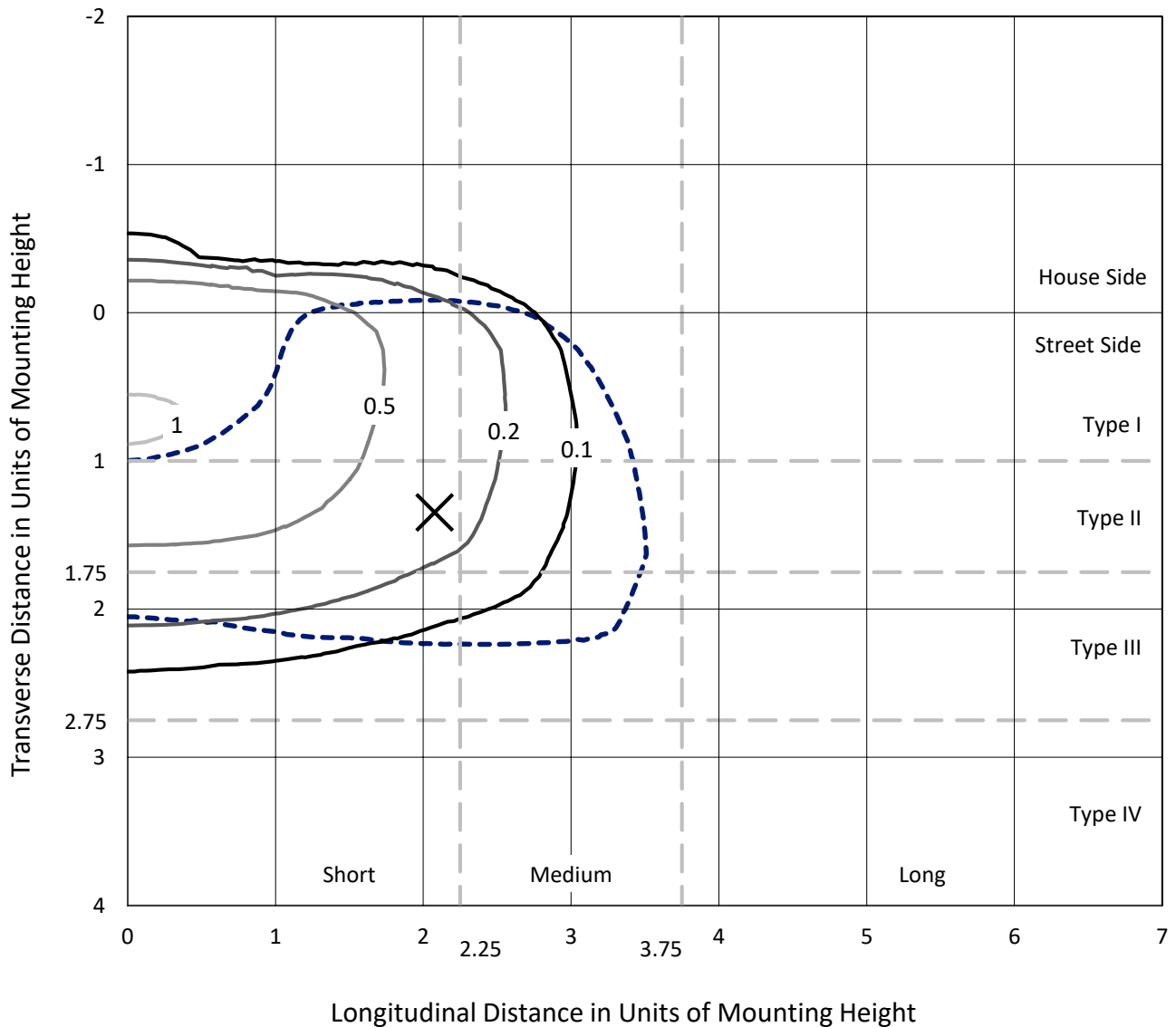
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

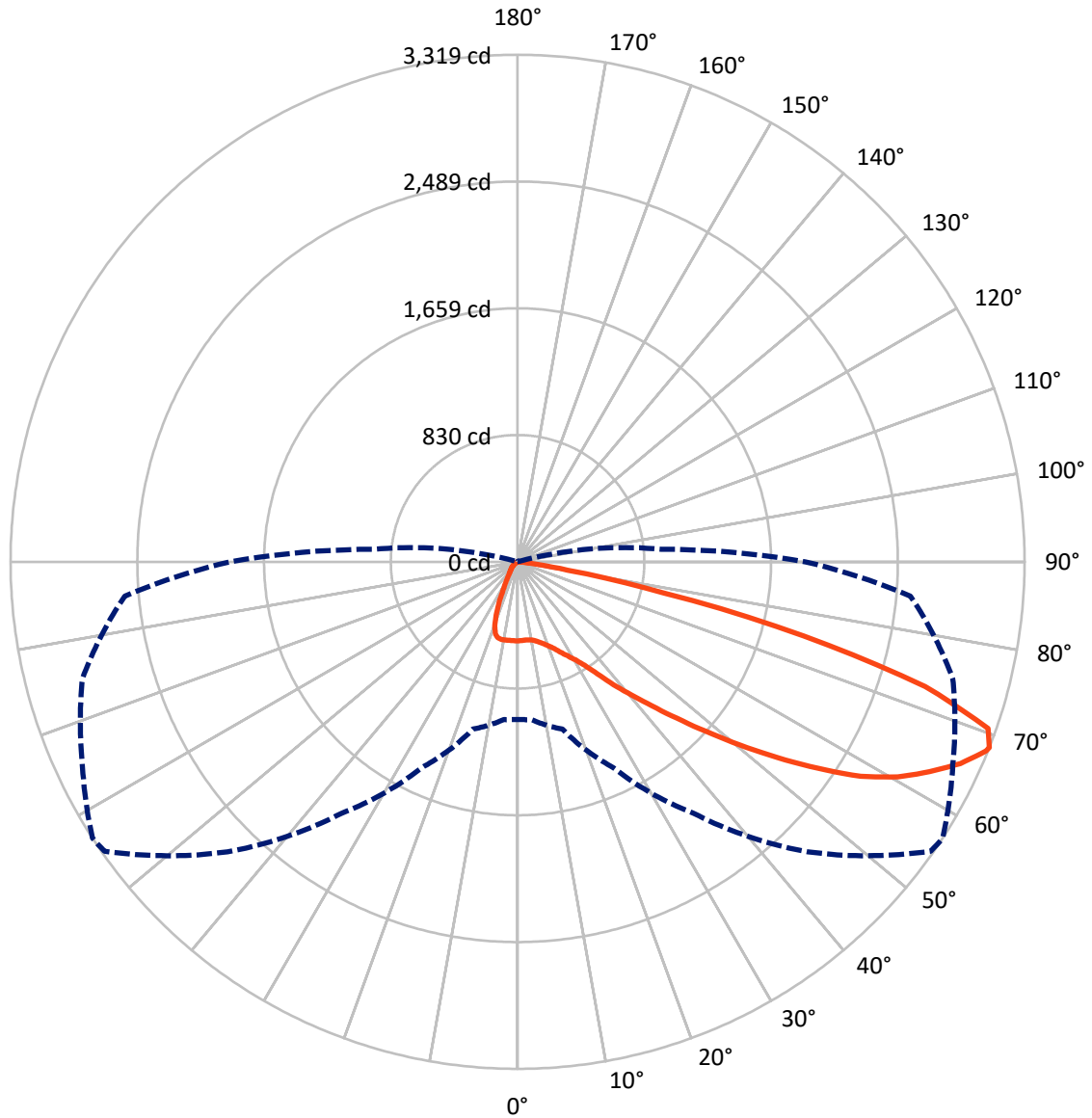
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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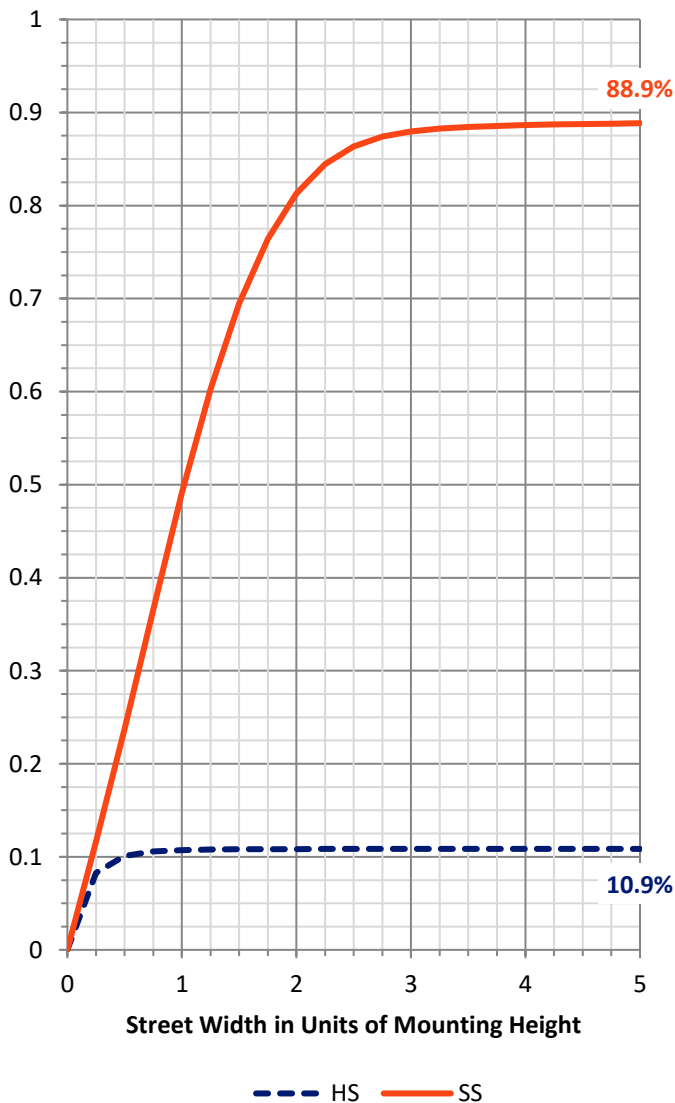
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	477.2	0.0	477.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	3874.8	0.0	3874.8
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	4352.0	0.0	4352.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	1.1
10°-20°	134.1	3.1
20°-30°	231.4	5.3
30°-40°	399.3	9.2
40°-50°	683.0	15.7
50°-60°	1092.8	25.1
60°-70°	1262.6	29.0
70°-80°	482.4	11.1
80°-90°	18.1	0.4
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°	4352.0	100.0
0°-180°	4352.0	100.0

**Coefficient of Utilization**



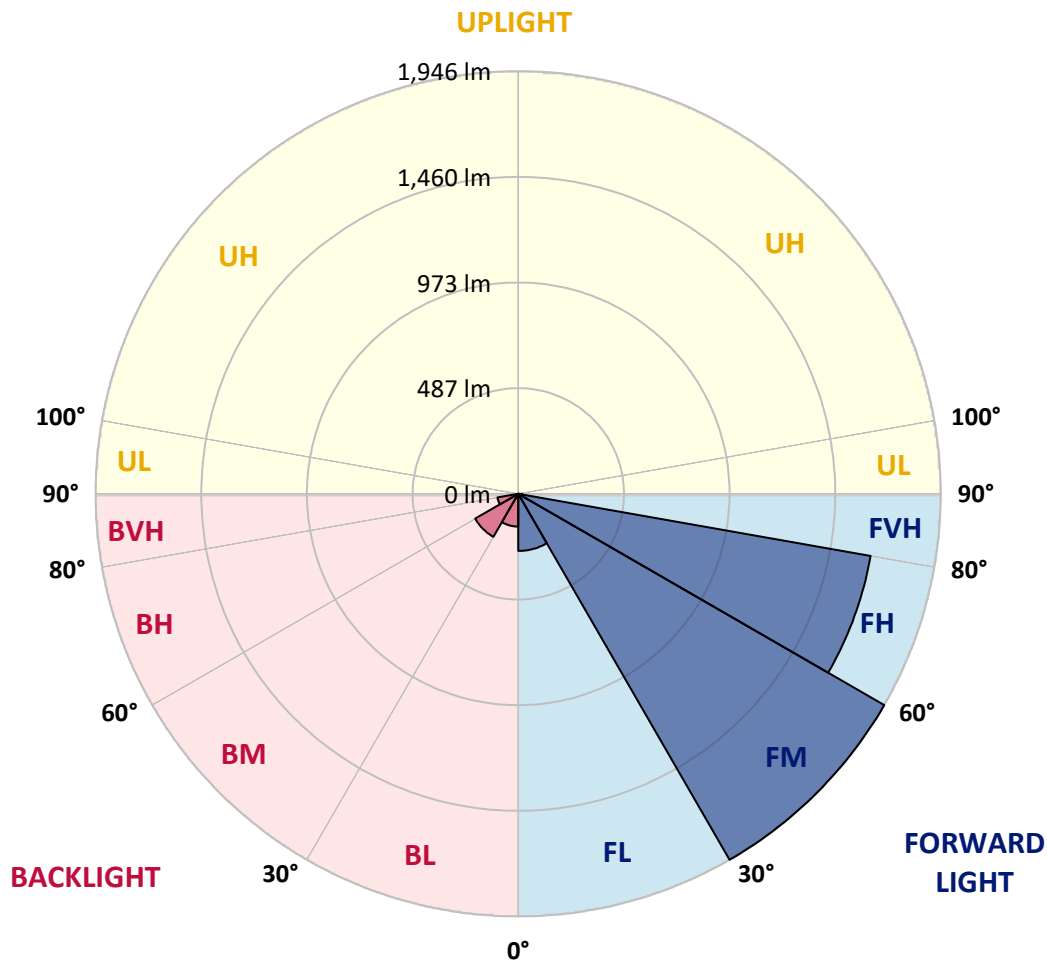
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.0	6.0			
FM (30°-60°)	1946.2	44.7			
FH (60°-80°)	1647.8	37.9			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	150.8	3.5	B1/500		
BM (30°-60°)	228.9	5.3	B1/1000		
BH (60°-80°)	97.2	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1
2.5°	505.0	507.3	508.9	509.9	511.2	513.8	514.7	515.9	516.5	516.5	518.0
5°	485.0	487.5	491.0	493.9	499.6	507.0	512.4	514.5	518.2	521.5	523.3
7.5°	466.5	469.4	473.5	480.3	490.2	502.1	513.2	516.1	523.3	530.3	533.8
10°	454.6	456.8	462.2	471.9	484.8	501.5	517.1	520.6	533.0	544.7	551.3
12.5°	450.5	452.5	458.1	469.0	485.0	504.6	526.2	531.3	549.4	566.5	575.8
15°	456.4	456.8	462.8	473.1	488.9	512.2	541.2	547.4	570.2	592.4	604.0
17.5°	479.5	477.6	480.7	485.2	497.8	522.3	557.1	566.3	596.8	622.9	633.8
20°	537.1	537.1	530.1	517.7	518.0	537.9	578.5	589.0	626.2	656.4	666.3
22.5°	635.7	633.8	619.8	589.6	561.8	564.9	604.6	618.2	661.6	693.9	697.2
25°	754.2	751.9	730.3	687.7	639.6	608.5	640.0	655.6	703.8	732.4	725.6
27.5°	879.7	877.9	856.5	803.6	735.1	678.1	682.2	697.0	746.8	775.0	753.4
30°	1001.3	1002.0	980.8	926.4	848.9	766.7	735.7	744.3	788.6	817.2	786.3
32.5°	1117.0	1117.8	1099.5	1038.8	966.4	869.8	809.8	807.5	837.1	865.3	829.9
35°	1220.1	1222.1	1209.6	1162.5	1085.7	984.7	905.9	900.5	906.1	938.0	896.8
37.5°	1319.5	1320.7	1311.2	1271.5	1207.3	1110.8	1027.3	1019.7	1007.7	1032.2	985.1
40°	1428.3	1425.3	1414.3	1378.3	1323.2	1250.1	1157.7	1144.6	1123.8	1145.6	1101.1
42.5°	1529.6	1526.1	1527.9	1487.2	1440.7	1393.4	1309.8	1287.2	1275.0	1300.1	1243.5
45°	1656.1	1654.3	1660.5	1625.1	1587.4	1553.0	1484.1	1459.4	1454.1	1483.5	1415.8
47.5°	1781.1	1785.6	1804.7	1789.7	1774.5	1744.2	1668.7	1657.6	1660.9	1696.5	1597.5
50°	1885.2	1890.5	1943.0	1960.3	1982.3	1964.6	1888.9	1882.1	1895.1	1927.2	1793.0
52.5°	1960.5	1971.4	2036.6	2116.3	2196.5	2208.5	2132.9	2126.8	2144.3	2149.2	1944.0
55°	2012.8	2022.4	2096.3	2242.0	2405.4	2456.8	2409.9	2386.1	2382.8	2334.0	2102.9
57.5°	2022.0	2021.0	2127.2	2323.3	2569.2	2701.9	2672.3	2648.8	2581.3	2504.8	2285.0
60°	1969.8	1975.7	2099.0	2351.5	2672.1	2887.3	2889.6	2859.1	2754.0	2670.9	2461.6
62.5°	1808.8	1833.1	1957.6	2277.6	2670.9	2962.0	3048.9	3025.6	2899.9	2806.9	2640.6
65°	1547.9	1556.5	1675.3	2024.5	2490.4	2930.8	3192.3	3183.7	3031.4	2939.0	2732.6
67.5°	1130.4	1111.6	1236.3	1594.2	2108.5	2748.4	3295.2	3306.1	3132.8	2966.2	2634.6
68°	1031.6	1037.1	1134.3	1487.8	2008.4	2684.0	3302.0	3318.7	3142.9	2948.5	2581.1
70°	614.9	625.6	712.2	1024.4	1527.9	2319.6	3228.7	3266.8	3082.8	2765.9	2232.5
72.5°	157.0	169.8	251.7	458.5	872.7	1634.3	2725.6	2790.0	2676.6	2243.9	1507.2
75°	64.6	67.9	89.9	151.0	325.1	736.3	1796.5	1934.4	1855.5	1343.4	681.1
77.5°	44.7	46.9	57.8	83.8	140.8	249.6	880.8	980.3	883.2	458.5	148.6
80°	32.1	34.0	41.4	55.8	80.9	89.1	287.1	331.9	263.6	100.6	36.8
82.5°	19.1	20.6	30.9	39.7	49.2	42.6	71.4	81.1	76.3	50.0	16.5
85°	9.5	11.1	20.8	28.4	26.5	17.9	21.8	24.3	30.0	30.5	8.8
87.5°	0.6	1.2	12.1	17.1	7.4	4.1	6.4	7.8	10.7	15.0	3.7
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°	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1	517.1
2.5°	518.6	518.8	517.3	516.7	517.1	514.7	513.6	514.0	514.0	514.7	513.6
5°	523.7	523.7	521.2	518.0	516.1	511.4	508.3	507.5	506.8	506.4	505.6
7.5°	534.8	533.6	529.3	522.1	515.9	505.6	497.8	493.7	491.6	490.8	490.2
10°	552.7	550.5	543.3	529.9	515.7	497.4	480.3	468.2	458.1	454.0	451.5
12.5°	576.8	573.5	561.4	539.2	514.3	480.5	443.5	407.9	374.7	361.1	354.4
15°	604.6	599.9	580.7	547.0	505.8	442.4	362.0	299.6	253.7	236.4	229.0
17.5°	632.8	626.6	597.6	551.9	480.5	363.6	253.9	191.8	161.1	152.9	150.0
20°	661.2	652.1	612.2	548.2	423.3	262.2	167.5	140.1	131.3	128.8	128.0
22.5°	688.1	674.1	625.4	533.8	335.2	175.9	132.5	123.9	121.0	119.6	119.1
25°	711.6	692.0	636.9	489.4	237.3	132.9	119.4	116.5	112.8	110.1	110.3
27.5°	733.6	710.0	643.9	416.1	158.2	113.6	110.5	106.6	99.8	95.9	95.9
30°	760.2	733.8	649.0	320.2	116.5	100.4	98.0	92.0	82.7	77.6	77.6
32.5°	800.1	770.0	645.7	224.7	96.5	88.3	82.5	74.3	64.2	59.3	59.1
35°	861.2	826.0	622.3	147.3	85.2	76.8	67.5	57.4	48.6	44.4	44.2
37.5°	943.5	900.9	569.6	105.4	76.3	66.1	54.9	43.8	37.2	34.6	34.4
40°	1050.3	988.0	494.3	85.4	68.1	55.8	42.4	34.0	29.4	27.4	27.6
42.5°	1178.5	1081.2	404.0	73.7	60.1	45.9	33.1	26.8	23.9	22.4	22.0
45°	1320.9	1173.2	309.3	65.6	52.1	37.0	25.9	21.2	18.9	18.1	18.1
47.5°	1477.5	1262.7	226.4	58.6	43.4	28.6	20.8	17.3	15.4	14.8	14.6
50°	1619.7	1324.8	163.2	51.2	35.6	22.6	16.9	14.4	13.2	12.3	12.3
52.5°	1738.2	1344.4	120.2	43.2	28.8	18.1	14.0	12.3	11.1	10.5	10.5
55°	1842.6	1336.4	89.3	35.6	23.3	14.8	11.9	10.5	9.5	8.8	8.8
57.5°	1942.6	1310.4	66.7	29.0	18.7	11.9	10.1	8.8	7.8	7.4	7.4
60°	2024.3	1267.2	49.6	23.5	15.0	9.7	8.4	7.2	6.4	5.8	5.8
62.5°	2090.5	1219.5	36.4	19.3	11.9	7.6	6.6	6.0	4.7	4.1	4.1
65°	2091.0	1140.2	27.4	16.1	9.3	6.0	4.9	4.7	3.1	2.5	2.3
67.5°	1939.7	983.0	21.0	13.8	7.2	4.5	3.7	3.9	1.6	1.0	0.8
68°	1884.8	943.1	19.8	13.6	6.8	4.3	3.5	3.9	1.4	0.8	0.6
70°	1589.1	750.3	15.8	13.2	6.0	3.3	2.9	3.9	1.2	0.6	0.4
72.5°	1016.4	435.4	11.7	10.5	4.5	2.5	1.9	3.5	1.2	0.4	0.2
75°	432.6	135.0	8.0	7.4	2.7	1.9	1.2	2.3	0.8	0.2	0.0
77.5°	91.2	30.5	4.7	4.5	1.9	1.2	0.8	0.6	0.2	0.0	0.0
80°	23.5	8.8	2.5	2.3	1.0	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	7.4	3.5	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.6	0.2	0.0	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)