

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: P321735

Luminaire Tested: **GLEON-SA1D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4593 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

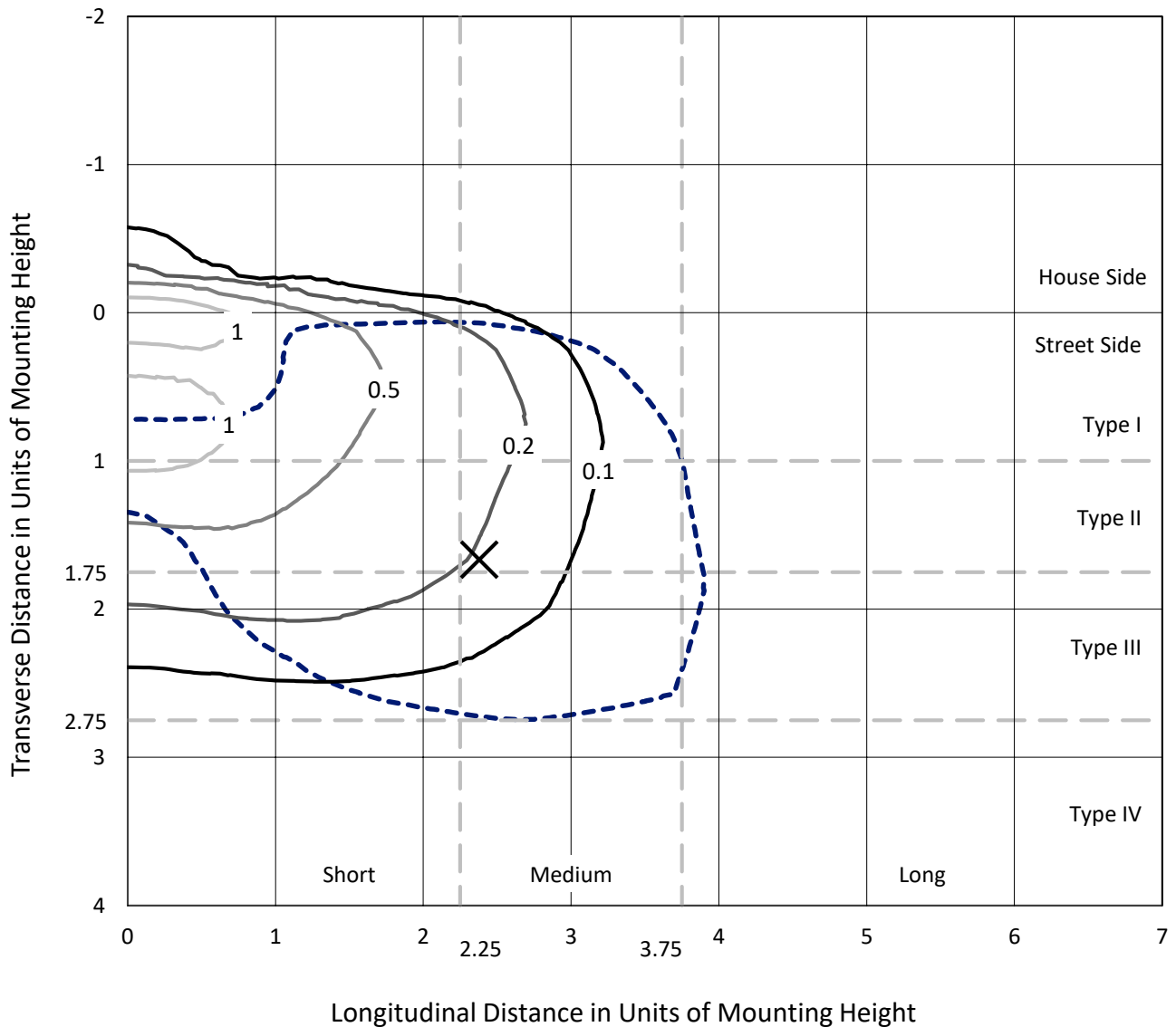
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

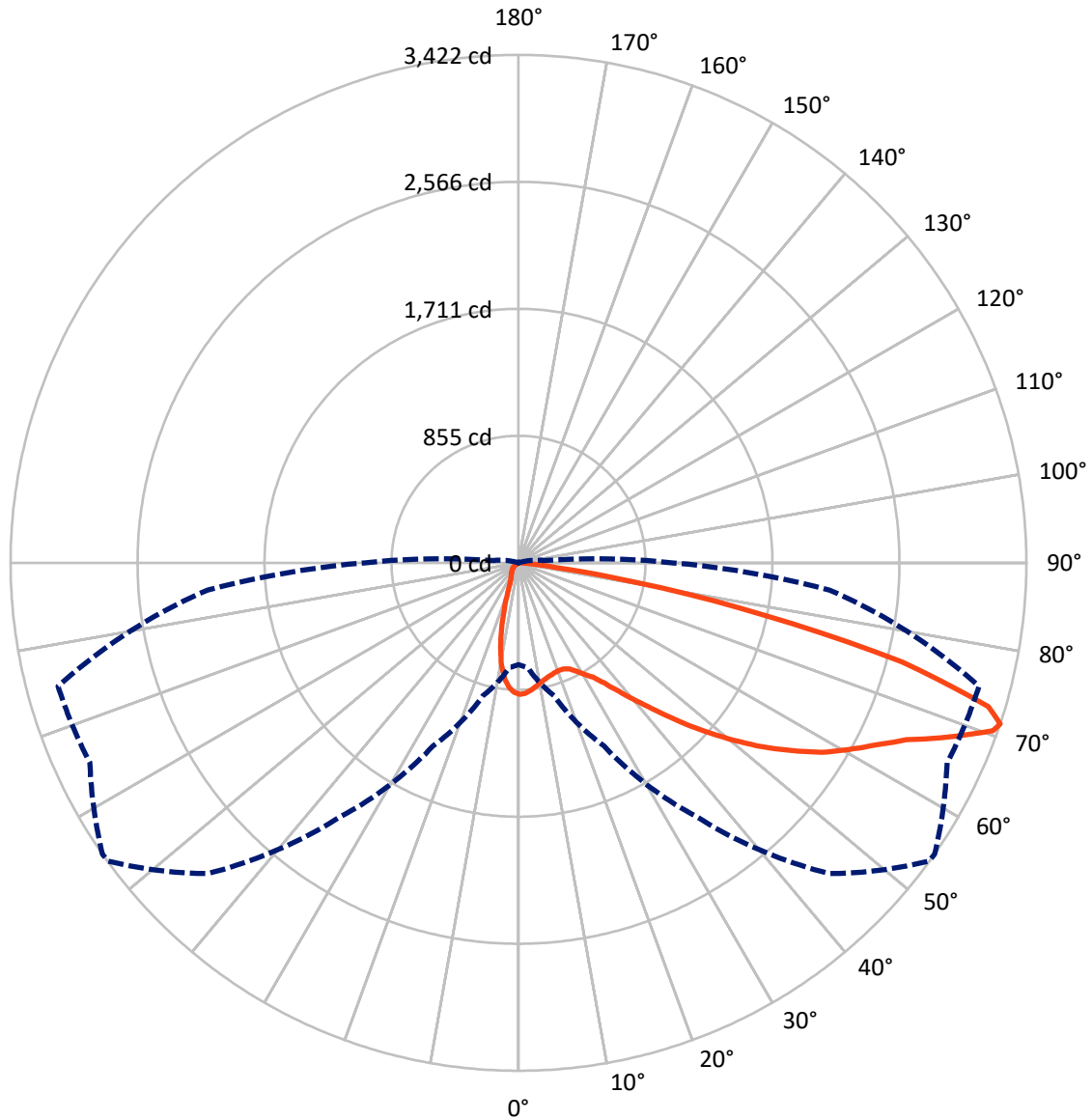
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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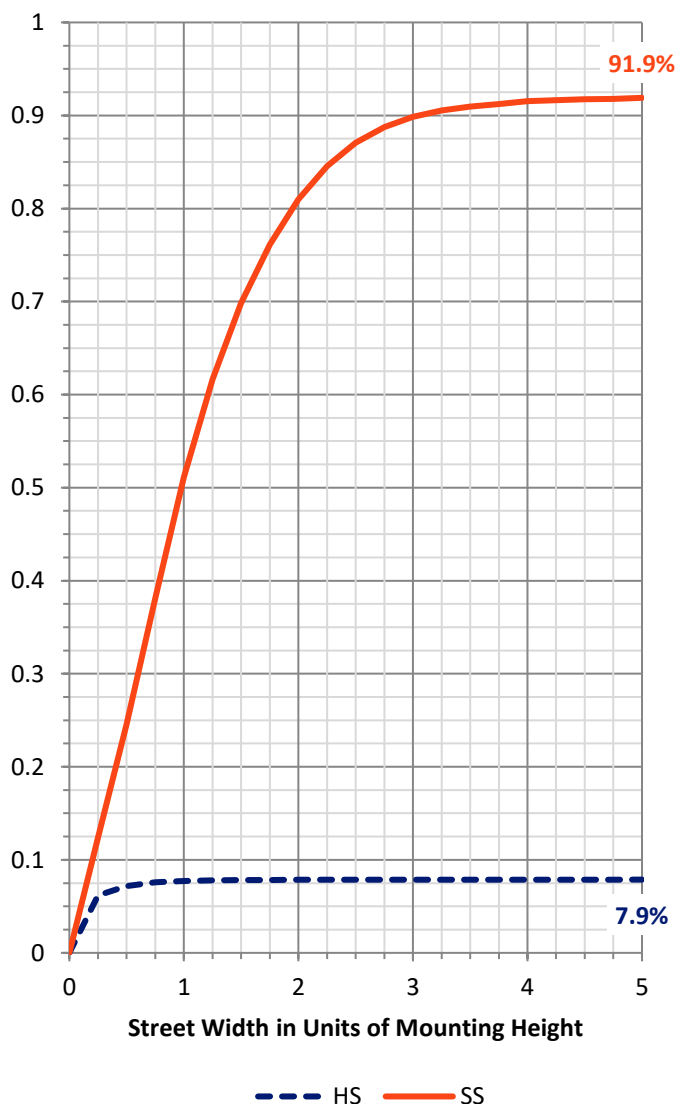
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.6	0.0	363.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	4229.4	0.0	4229.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	4593.0	0.0	4593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.6
10°-20°	170.5	3.7
20°-30°	274.0	6.0
30°-40°	465.5	10.1
40°-50°	722.6	15.7
50°-60°	971.5	21.2
60°-70°	1188.5	25.9
70°-80°	694.9	15.1
80°-90°	30.0	0.7
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°	4593.0	100.0
0°-180°	4593.0	100.0

Coefficient of Utilization

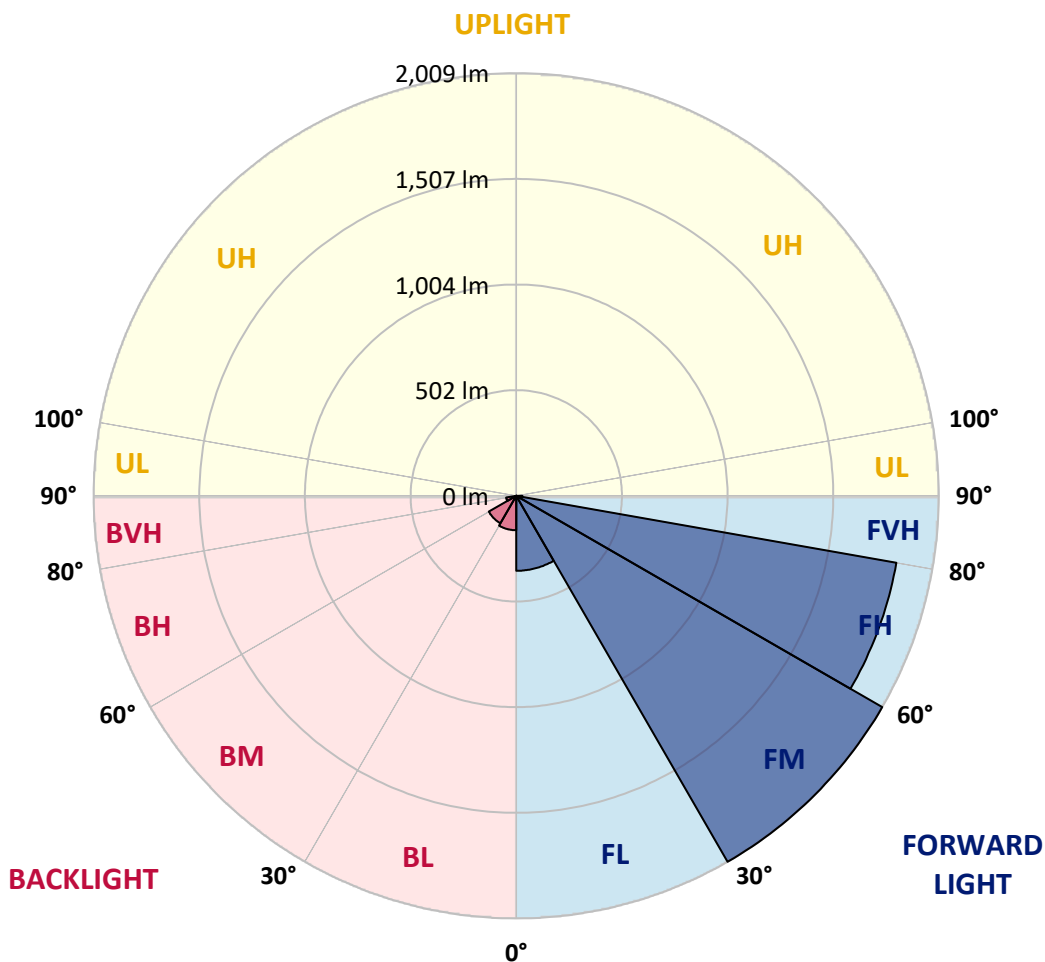


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.4	7.8			
FM (30°-60°)	2008.8	43.7			
FH (60°-80°)	1834.6	39.9			G2/5000
FVH (80°-90°)	29.6	0.6			G1/100
BL (0°-30°)	163.7	3.6	B1/500		
BM (30°-60°)	150.8	3.3	B0/220		
BH (60°-80°)	48.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8
2.5°	859.8	860.8	864.5	866.2	870.1	876.7	880.0	880.2	885.6	887.6	889.3
5°	799.0	805.1	811.3	817.9	829.9	845.8	861.4	862.9	880.2	893.0	899.8
7.5°	746.6	752.1	759.6	770.1	787.0	811.9	838.1	841.2	874.0	903.1	918.4
10°	692.7	697.3	708.0	723.5	746.8	780.2	815.5	820.6	868.5	916.7	943.5
12.5°	635.2	637.9	650.9	673.1	707.4	749.9	796.3	803.1	864.9	932.4	973.2
15°	591.5	592.7	605.1	628.2	667.4	722.6	781.4	789.7	865.8	951.2	1005.6
17.5°	580.3	581.0	587.6	603.4	638.1	698.3	769.7	779.8	868.2	969.5	1038.2
20°	625.5	621.2	614.4	611.9	626.7	683.7	762.7	774.0	871.5	985.8	1067.5
22.5°	749.5	736.7	708.4	670.7	647.8	684.7	764.5	775.9	882.1	1005.8	1101.3
25°	933.4	915.7	867.6	793.4	722.0	714.4	780.0	791.5	902.5	1029.7	1133.7
27.5°	1142.7	1125.2	1066.4	960.4	838.8	773.2	815.5	826.2	932.8	1051.0	1158.4
30°	1343.2	1338.3	1269.0	1148.5	985.6	868.5	861.2	870.3	955.3	1063.8	1178.0
32.5°	1513.1	1505.3	1449.6	1332.5	1153.7	982.9	915.1	917.7	972.2	1080.3	1203.6
35°	1670.7	1661.0	1612.1	1501.4	1326.1	1122.7	998.0	994.0	1009.1	1113.5	1240.7
37.5°	1808.3	1817.1	1762.9	1657.5	1480.8	1268.1	1109.7	1098.0	1066.9	1167.5	1294.5
40°	1923.3	1923.3	1895.1	1807.2	1647.8	1418.5	1236.2	1220.7	1153.7	1250.8	1362.8
42.5°	1964.8	1973.7	1984.2	1934.5	1797.3	1574.8	1377.0	1360.9	1276.0	1369.0	1449.0
45°	1967.3	1981.3	2035.1	2034.9	1932.4	1730.1	1535.8	1528.2	1432.7	1520.8	1555.8
47.5°	1932.4	1949.9	2038.6	2088.9	2039.5	1874.7	1709.5	1700.0	1616.9	1706.8	1667.6
50°	1878.6	1898.0	2001.1	2110.2	2112.3	2000.5	1892.4	1878.2	1819.6	1919.4	1783.1
52.5°	1782.3	1819.8	1967.5	2115.1	2160.1	2109.2	2066.5	2060.3	2046.5	2124.2	1875.1
55°	1576.2	1617.9	1883.1	2116.8	2204.4	2205.5	2229.6	2231.2	2259.1	2315.6	1943.6
57.5°	1478.9	1502.4	1735.9	2124.6	2270.2	2314.8	2395.8	2408.6	2451.7	2497.3	2021.7
60°	1417.7	1445.5	1663.3	2113.9	2373.6	2458.1	2549.9	2554.2	2600.4	2684.8	2127.5
62.5°	1368.8	1396.2	1617.5	2072.7	2489.7	2630.5	2700.4	2700.8	2735.5	2908.1	2247.7
65°	1248.1	1271.2	1524.9	2026.3	2566.4	2801.1	2875.3	2872.6	2900.9	3143.6	2387.4
67.5°	1073.7	1091.4	1335.8	1850.3	2537.5	2956.2	3139.3	3130.4	3096.2	3347.2	2442.2
70°	830.1	836.5	1052.8	1542.0	2266.9	3015.8	3394.4	3389.9	3216.0	3310.7	2241.1
71°	686.1	707.2	927.8	1360.9	2085.6	2960.7	3419.2	3421.8	3185.9	3211.3	2102.8
72.5°	398.4	416.4	672.5	1045.2	1770.7	2731.0	3290.9	3310.3	3045.3	2920.9	1796.1
75°	85.4	91.4	249.3	505.9	974.0	1914.1	2597.5	2666.6	2482.0	1987.1	1082.5
77.5°	59.4	64.1	106.8	229.5	321.9	945.8	1613.6	1691.5	1482.8	746.8	346.5
80°	47.0	52.4	83.3	113.4	87.0	305.0	755.8	803.5	494.5	166.6	58.4
82.5°	26.2	31.1	65.0	61.3	33.4	58.0	211.6	239.2	99.0	33.6	13.8
85°	7.6	9.3	41.9	44.5	14.2	11.1	36.1	44.8	18.8	8.9	6.2
87.5°	0.0	0.0	20.2	17.1	4.1	1.6	3.3	3.7	3.7	3.7	4.1
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°	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8
2.5°	889.3	890.7	885.6	878.8	871.5	862.7	853.4	846.2	846.0	842.5	839.0
5°	900.2	899.4	885.2	863.5	837.9	811.3	786.0	757.3	747.8	736.1	732.1
7.5°	920.4	914.6	884.5	837.1	781.0	725.3	667.8	609.8	585.1	562.8	558.9
10°	945.8	934.9	880.6	797.5	694.6	591.9	505.1	426.3	391.6	365.0	363.8
12.5°	972.2	955.5	869.7	737.7	581.4	437.0	337.0	259.4	230.6	212.0	213.7
15°	999.8	974.9	846.2	657.1	452.5	296.6	207.1	161.5	149.9	145.2	146.4
17.5°	1028.1	988.3	813.4	559.9	325.2	191.4	143.3	130.5	130.5	131.6	132.0
20°	1052.6	995.5	765.1	451.0	220.5	139.4	125.4	123.5	124.6	126.2	126.4
22.5°	1077.0	995.9	702.2	340.7	154.3	122.1	119.4	118.6	119.2	121.1	121.3
25°	1096.8	991.0	623.4	242.3	123.1	115.1	113.8	113.4	113.8	116.1	116.1
27.5°	1104.8	973.0	527.3	170.3	110.3	107.2	106.8	107.2	107.9	109.5	109.7
30°	1105.6	941.7	422.6	123.3	100.0	96.7	97.5	99.0	98.4	98.0	98.4
32.5°	1107.7	905.4	320.5	101.5	91.4	86.2	85.2	85.2	82.7	81.3	80.4
35°	1114.5	862.7	232.4	91.2	82.5	76.5	72.6	68.1	63.3	60.8	60.2
37.5°	1125.2	817.9	166.4	84.3	74.7	67.9	60.4	52.4	45.6	43.7	43.7
40°	1144.8	771.7	123.1	79.0	68.5	60.0	48.9	38.4	32.2	31.1	31.1
42.5°	1175.7	723.1	98.2	74.2	63.1	52.0	37.3	27.8	23.3	22.7	22.5
45°	1207.9	669.4	85.8	69.7	57.3	42.7	27.6	20.6	17.9	17.3	17.3
47.5°	1240.1	612.3	79.8	65.4	51.8	33.2	20.6	16.3	15.1	15.1	15.3
50°	1267.3	552.7	75.5	60.6	44.5	25.2	16.3	13.8	13.4	14.2	14.4
52.5°	1274.1	494.1	70.1	54.7	35.7	19.2	13.4	12.2	12.2	12.2	12.2
55°	1270.0	448.8	63.1	47.2	26.4	15.3	11.5	10.7	10.5	10.5	10.5
57.5°	1284.0	422.0	50.5	36.7	19.0	12.4	10.1	9.5	9.1	8.9	8.9
60°	1312.3	404.4	36.1	26.4	14.2	10.3	8.7	8.0	7.4	7.0	7.0
62.5°	1349.8	389.2	26.8	19.6	10.9	8.2	7.2	6.6	5.8	5.4	5.4
65°	1378.7	361.9	20.4	14.6	8.2	6.6	5.6	5.4	4.1	3.7	3.5
67.5°	1334.5	302.1	16.5	10.7	6.2	5.2	4.3	4.1	2.5	2.1	2.1
70°	1144.6	210.4	13.2	7.8	4.5	4.1	3.5	2.7	1.9	1.6	1.6
71°	1038.0	175.7	12.0	6.6	3.9	3.9	3.3	2.3	1.6	1.4	1.4
72.5°	862.3	124.8	10.1	5.2	3.5	4.1	3.5	2.1	1.6	1.4	1.2
75°	500.5	52.2	7.0	3.5	2.7	4.9	4.5	1.9	1.2	1.0	1.0
77.5°	150.6	19.2	3.9	2.3	2.1	4.3	5.2	1.6	0.6	0.2	0.2
80°	27.4	8.2	2.5	1.4	1.4	2.7	3.9	0.8	0.0	0.0	0.0
82.5°	9.7	4.1	1.4	0.8	0.6	1.2	1.9	0.0	0.0	0.0	0.0
85°	5.6	2.9	0.8	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0
87.5°	3.7	0.8	0.0	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)