

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: P323975

Luminaire Tested: **GLEON-SA1D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4847 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

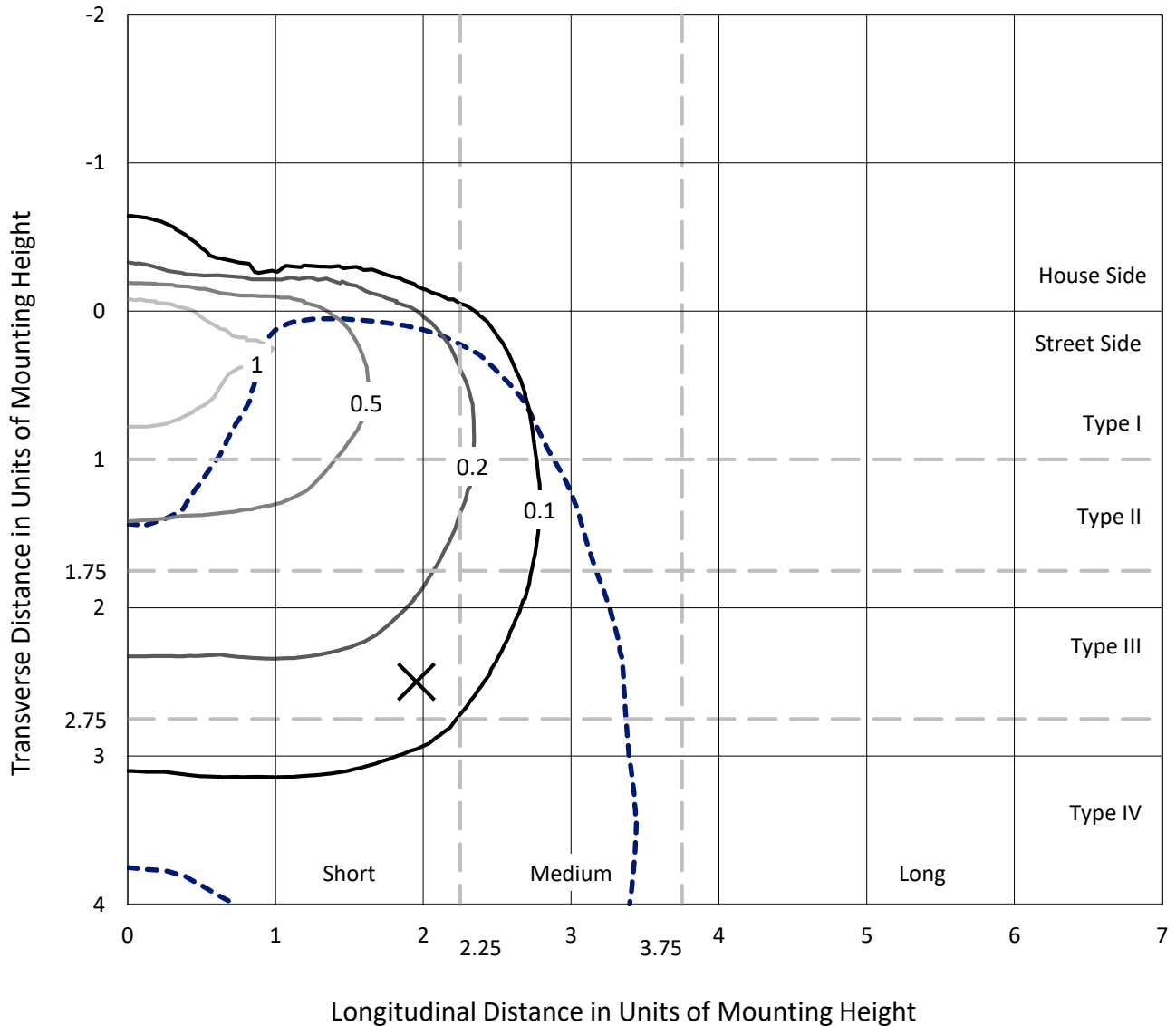
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

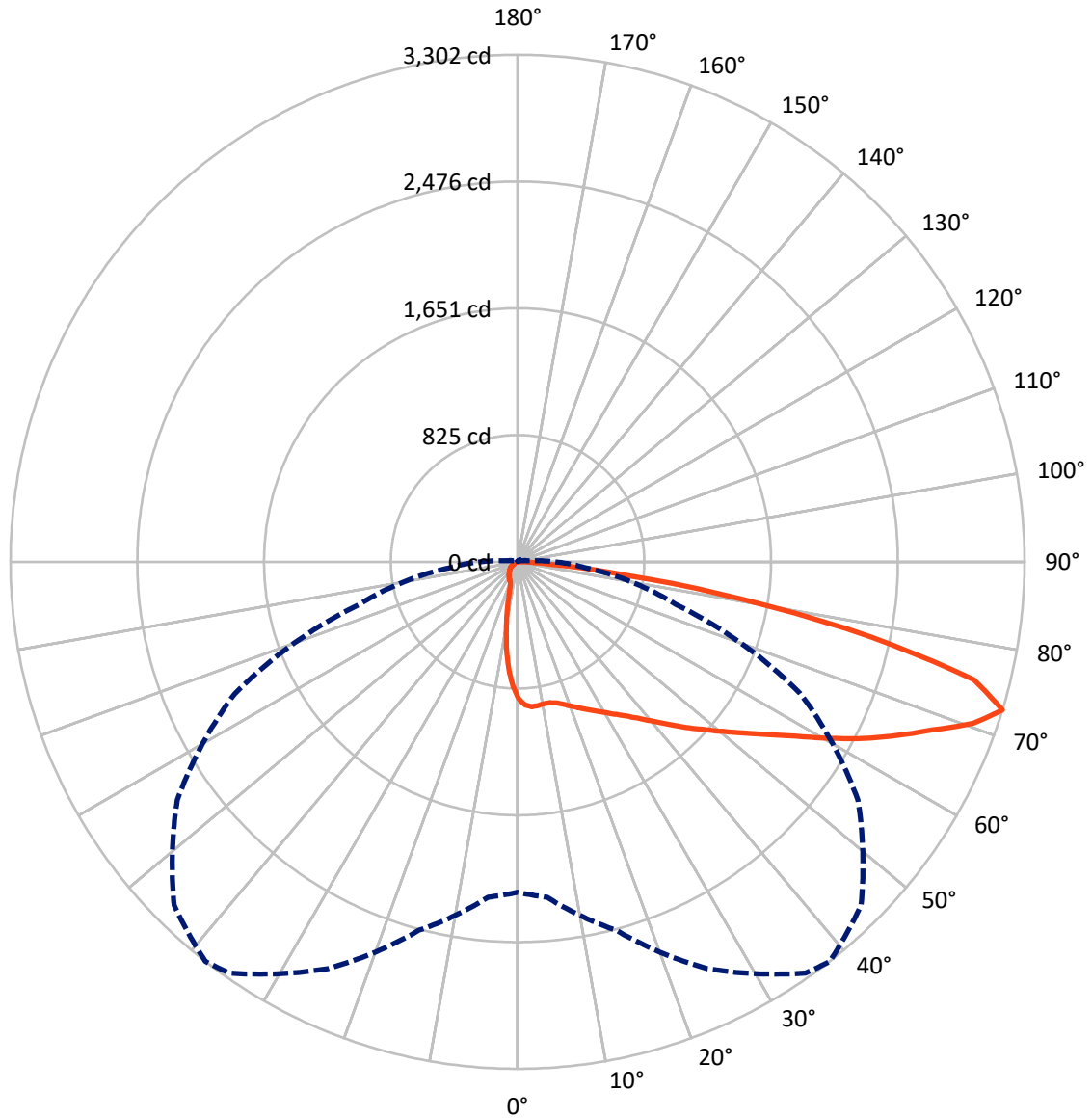
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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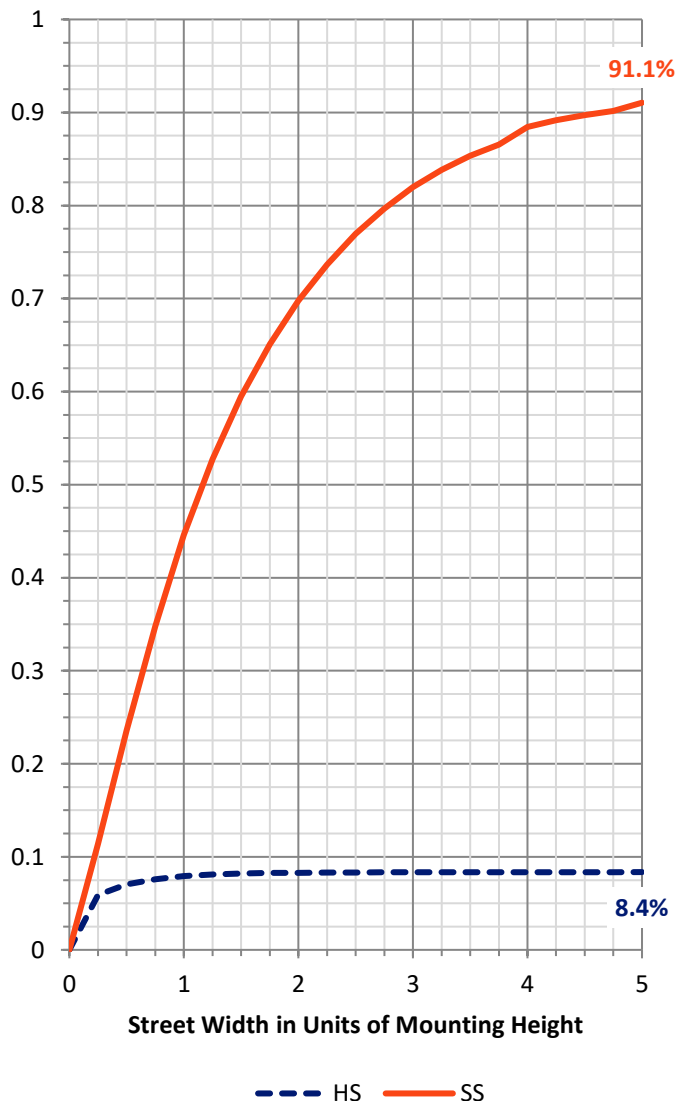
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.9	0.0	407.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4439.1	0.0	4439.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	4847.0	0.0	4847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.6
10°-20°	185.7	3.8
20°-30°	295.4	6.1
30°-40°	444.1	9.2
40°-50°	677.5	14.0
50°-60°	957.6	19.8
60°-70°	1201.1	24.8
70°-80°	898.1	18.5
80°-90°	111.4	2.3
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°	4847.0	100.0
0°-180°	4847.0	100.0

Coefficient of Utilization

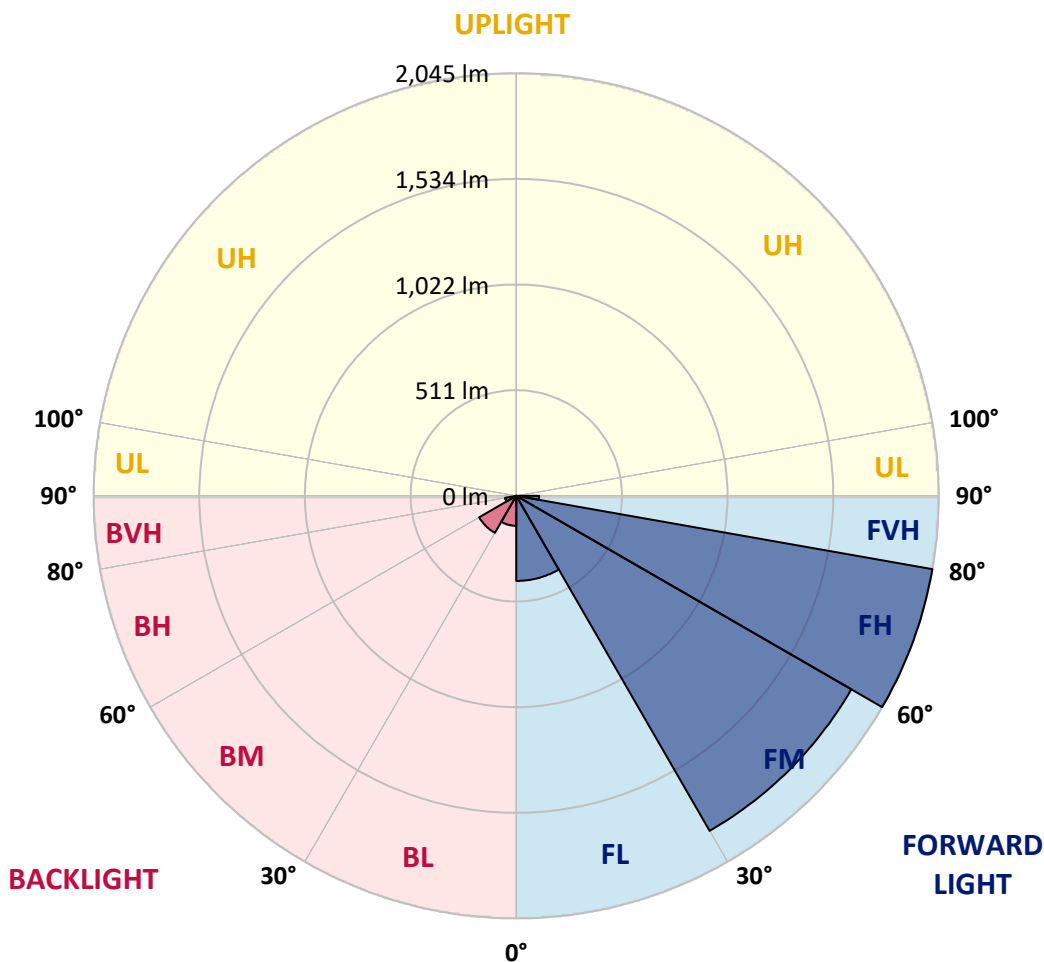


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.9	8.5			
FM (30°-60°)	1872.1	38.6			
FH (60°-80°)	2044.8	42.2			G2/5000
FVH (80°-90°)	110.3	2.3			G2/225
BL (0°-30°)	145.2	3.0	B1/500		
BM (30°-60°)	207.1	4.3	B0/220		
BH (60°-80°)	54.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3
2.5°	946.1	946.3	944.1	940.5	935.8	933.4	929.4	923.0	916.1	903.8	890.5
5°	965.4	965.4	962.6	957.8	950.3	948.1	940.5	930.2	916.1	896.2	873.8
7.5°	963.4	963.8	960.0	955.0	947.5	945.5	936.2	924.8	907.2	883.1	854.5
10°	952.9	954.0	950.9	948.5	941.7	939.5	930.8	919.3	901.8	876.0	843.2
12.5°	942.3	943.3	944.3	946.5	942.3	941.5	934.6	925.0	908.3	881.5	844.4
15°	935.4	937.4	944.7	953.3	954.4	953.5	949.1	940.1	923.2	895.4	853.1
17.5°	935.4	938.7	953.7	970.3	976.1	976.7	972.9	960.2	940.1	910.3	861.2
20°	943.3	947.7	971.3	994.6	1004.3	1004.3	996.8	979.1	955.6	923.8	866.6
22.5°	963.4	969.2	998.8	1025.8	1036.1	1033.9	1023.8	998.0	971.7	939.1	873.4
25°	1003.1	1007.5	1038.3	1065.5	1071.7	1066.7	1054.0	1021.0	992.2	959.8	885.9
27.5°	1054.2	1054.8	1086.6	1109.6	1105.7	1102.3	1086.4	1049.8	1021.8	989.4	907.5
30°	1110.4	1110.4	1138.3	1155.9	1144.2	1141.4	1125.5	1084.6	1059.6	1029.6	938.0
32.5°	1164.7	1167.1	1189.9	1200.9	1187.9	1185.0	1169.5	1128.7	1110.0	1091.0	985.8
35°	1217.2	1219.1	1240.6	1246.6	1234.2	1235.0	1223.9	1189.3	1182.2	1179.8	1057.6
37.5°	1268.2	1268.6	1290.5	1294.3	1288.1	1294.9	1296.0	1265.4	1278.4	1298.0	1158.9
40°	1314.7	1315.1	1336.8	1346.7	1357.4	1366.2	1374.1	1357.8	1401.0	1446.3	1279.4
42.5°	1351.9	1356.1	1383.7	1402.4	1430.6	1447.5	1468.9	1468.1	1547.0	1615.0	1425.2
45°	1384.7	1392.0	1430.4	1463.2	1511.5	1538.5	1571.9	1598.1	1711.2	1802.8	1572.7
47.5°	1428.0	1434.9	1478.7	1532.5	1596.9	1632.3	1687.7	1744.2	1891.8	1987.2	1716.9
50°	1489.0	1486.0	1529.3	1606.4	1689.1	1735.6	1814.5	1899.2	2071.0	2147.8	1801.6
52.5°	1554.0	1552.8	1584.8	1686.7	1797.8	1852.1	1956.4	2059.5	2242.3	2258.6	1840.5
55°	1634.5	1625.9	1652.9	1778.3	1926.8	1985.2	2108.0	2218.1	2378.7	2321.0	1860.0
57.5°	1718.9	1704.6	1730.4	1880.3	2072.4	2141.4	2275.9	2372.7	2469.5	2363.6	1859.8
60°	1806.0	1789.1	1819.7	2007.9	2253.1	2333.0	2457.8	2477.2	2554.3	2385.2	1846.1
62.5°	1878.9	1868.9	1914.3	2144.4	2455.0	2533.5	2595.3	2572.2	2625.7	2401.9	1814.1
65°	1956.0	1956.6	2030.1	2303.7	2669.6	2722.6	2727.8	2695.4	2685.5	2398.5	1705.8
67.5°	2060.3	2069.9	2192.5	2519.8	2878.4	2919.2	2918.8	2828.8	2729.2	2262.4	1465.7
70°	2170.6	2193.3	2379.7	2767.2	3106.2	3147.7	3126.4	2913.8	2569.8	1829.4	1037.3
72.5°	2152.1	2191.5	2483.8	2923.2	3269.9	3301.5	3162.8	2705.0	2031.1	1063.3	441.6
75°	1660.3	1706.0	2277.5	2768.7	3098.2	3069.8	2717.5	2105.0	1110.0	296.7	99.4
77.5°	877.1	901.4	1504.5	2109.2	2415.8	2356.4	1914.3	1167.7	338.4	73.5	44.7
80°	459.4	465.0	655.6	1196.7	1491.0	1491.4	1134.5	512.9	139.5	37.6	30.0
82.5°	246.0	250.8	346.4	553.0	781.2	708.2	434.4	282.2	81.1	21.3	28.8
85°	59.2	60.2	196.5	252.6	307.2	219.4	129.0	236.9	21.9	12.5	23.4
87.5°	22.7	23.1	72.9	109.3	78.3	50.7	60.4	88.4	2.8	4.8	3.6
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°	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3
2.5°	882.5	877.3	864.4	848.1	833.6	823.1	807.4	797.1	790.3	790.1	787.5
5°	860.1	849.5	821.7	788.7	758.7	731.7	699.9	674.8	656.0	653.0	646.6
7.5°	836.2	818.7	776.0	724.5	674.1	623.0	563.6	526.8	495.2	480.1	478.5
10°	821.5	796.9	736.3	661.9	583.0	499.8	422.1	368.4	329.5	318.5	310.2
12.5°	818.5	786.1	705.8	603.1	490.4	380.5	294.5	237.3	206.3	196.5	193.8
15°	821.5	781.0	680.0	544.9	396.6	269.9	197.7	164.5	152.8	150.0	149.8
17.5°	823.3	775.0	650.8	480.3	305.6	192.8	151.4	141.7	139.9	139.7	140.1
20°	823.1	765.7	616.0	408.2	227.3	151.6	136.9	134.9	134.5	134.7	134.5
22.5°	821.7	754.9	577.7	334.0	171.7	135.5	130.6	129.4	129.2	129.2	129.2
25°	824.3	746.2	535.7	262.9	141.5	128.0	125.0	124.0	123.8	123.8	123.4
27.5°	833.8	741.4	489.6	202.3	127.8	121.4	119.0	118.8	118.2	118.0	118.4
30°	849.1	741.4	439.0	157.4	119.6	114.5	112.7	112.3	112.1	111.9	112.1
32.5°	876.0	747.0	383.9	130.8	111.7	106.9	105.7	106.3	105.7	105.7	105.7
35°	924.8	763.9	326.1	114.1	103.5	99.4	98.2	99.0	98.6	98.6	98.4
37.5°	995.8	795.3	267.9	104.1	96.2	92.0	90.4	91.6	91.2	91.2	91.0
40°	1082.4	841.0	212.6	96.4	89.2	84.7	83.3	83.9	82.9	82.9	83.3
42.5°	1189.3	899.0	164.3	89.0	82.1	77.9	77.1	76.5	74.7	73.7	73.9
45°	1308.0	959.4	128.0	81.7	75.5	72.1	70.9	69.2	66.2	64.2	64.4
47.5°	1414.1	1005.9	104.1	74.7	69.4	66.8	65.0	62.0	57.6	55.2	55.4
50°	1469.9	1012.9	88.6	67.6	63.8	61.2	58.6	53.9	48.7	46.1	45.9
52.5°	1484.2	979.9	77.1	61.2	58.2	55.2	51.7	45.5	39.7	36.8	36.4
55°	1489.4	929.6	66.8	55.2	52.1	48.7	44.3	37.2	31.8	29.0	28.8
57.5°	1472.1	854.5	58.8	49.7	46.1	41.9	36.4	29.8	24.6	22.3	22.3
60°	1433.6	752.9	52.5	43.9	39.9	35.0	29.4	23.1	18.3	16.5	16.5
62.5°	1356.9	621.2	46.7	37.8	34.0	29.0	23.8	17.5	12.9	11.9	12.1
65°	1212.2	471.2	40.9	32.4	29.0	24.0	18.5	12.5	8.7	8.7	9.1
67.5°	988.6	327.3	34.8	27.6	25.0	19.5	14.1	8.7	6.0	6.8	7.6
70°	654.4	183.6	29.8	22.7	21.3	15.5	10.5	5.8	4.8	6.4	7.9
72.5°	247.0	71.5	25.0	18.3	18.5	11.9	7.4	4.4	4.4	7.0	9.3
75°	68.8	35.0	17.9	13.5	14.5	8.7	5.4	3.8	4.2	8.1	10.9
77.5°	40.5	25.8	11.7	7.9	9.9	6.0	3.6	3.0	3.6	6.8	10.5
80°	32.6	13.7	6.8	4.0	5.4	3.4	2.4	1.8	1.0	2.6	5.4
82.5°	32.6	8.3	3.2	2.8	2.8	1.8	1.2	0.8	0.2	0.0	1.4
85°	21.9	3.4	2.0	1.8	1.4	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	3.6	1.4	0.8	0.4	0.2	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)