

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: P324905

Luminaire Tested: **GLEON-SA1A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2936 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

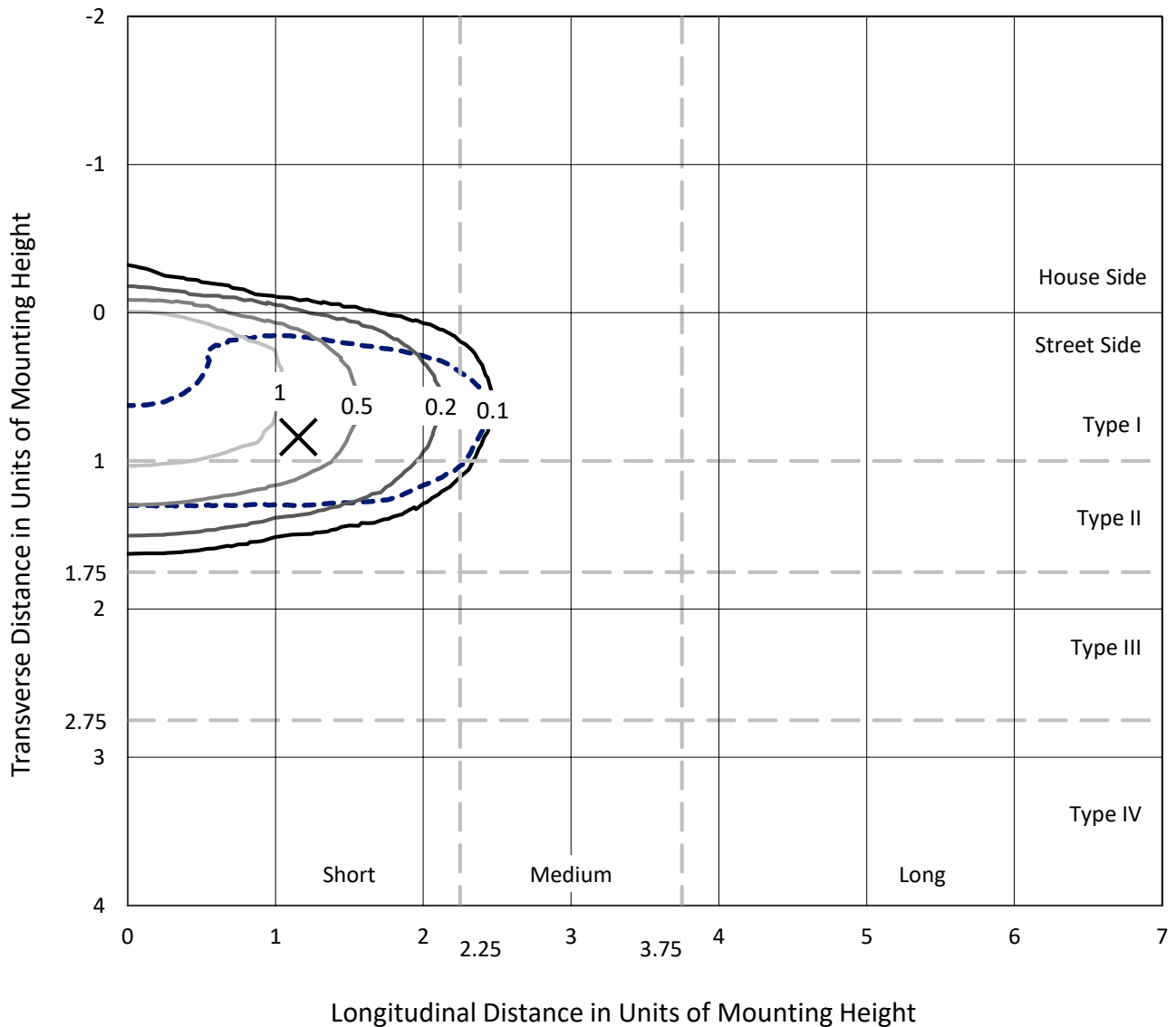
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

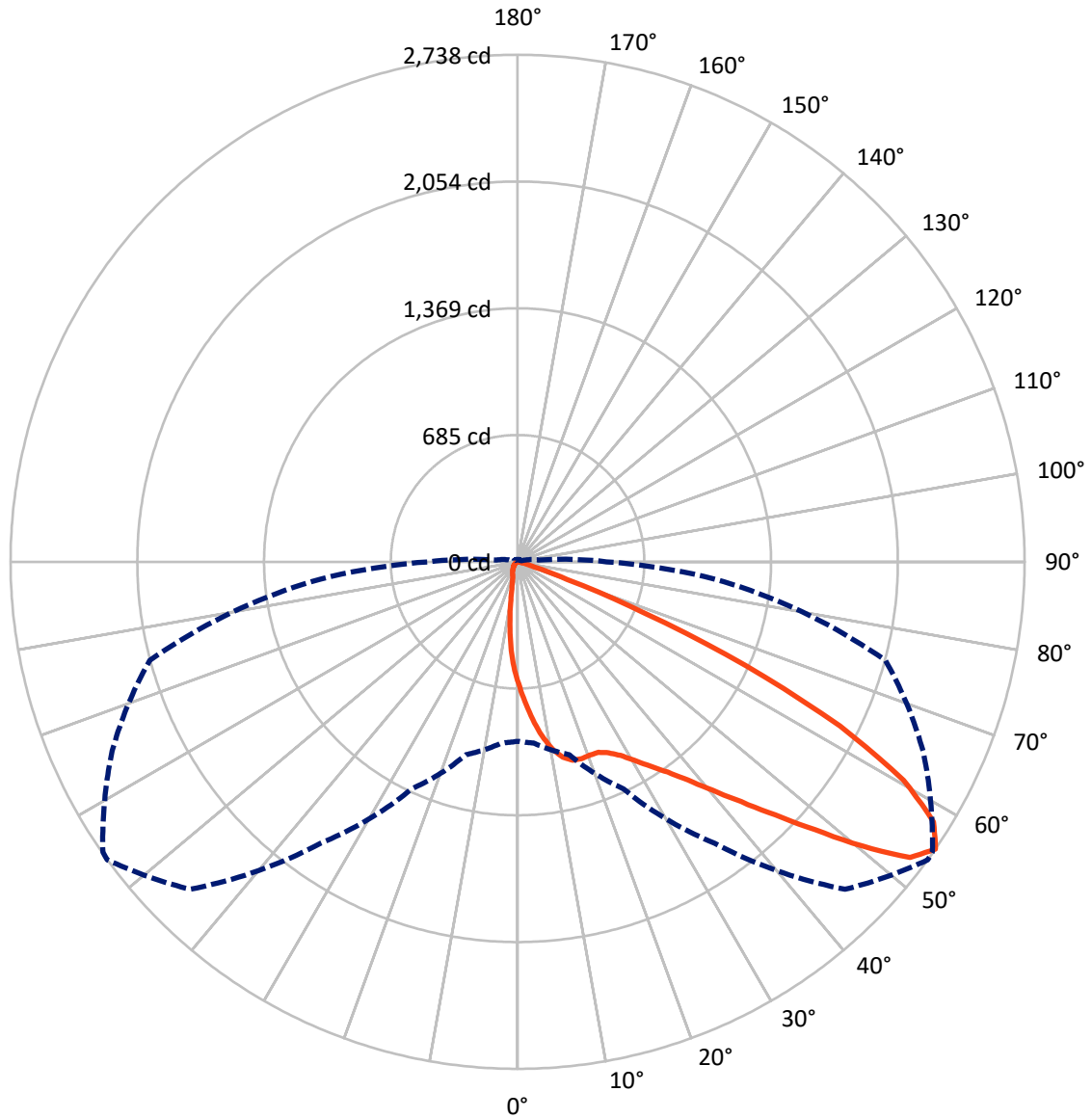
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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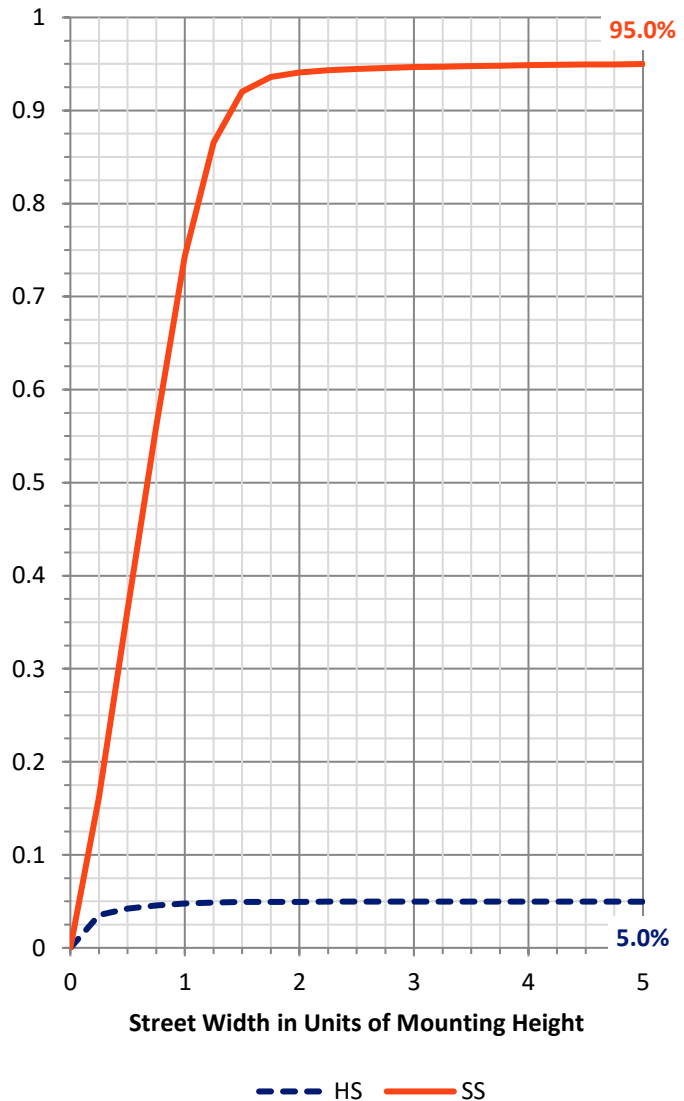
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	146.5	0.0	146.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2789.5	0.0	2789.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	2936.0	0.0	2936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	2.1
10°-20°	166.1	5.7
20°-30°	283.5	9.7
30°-40°	455.0	15.5
40°-50°	727.1	24.8
50°-60°	779.1	26.5
60°-70°	400.0	13.6
70°-80°	60.6	2.1
80°-90°	3.9	0.1
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°	2936.0	100.0
0°-180°	2936.0	100.0

Coefficient of Utilization

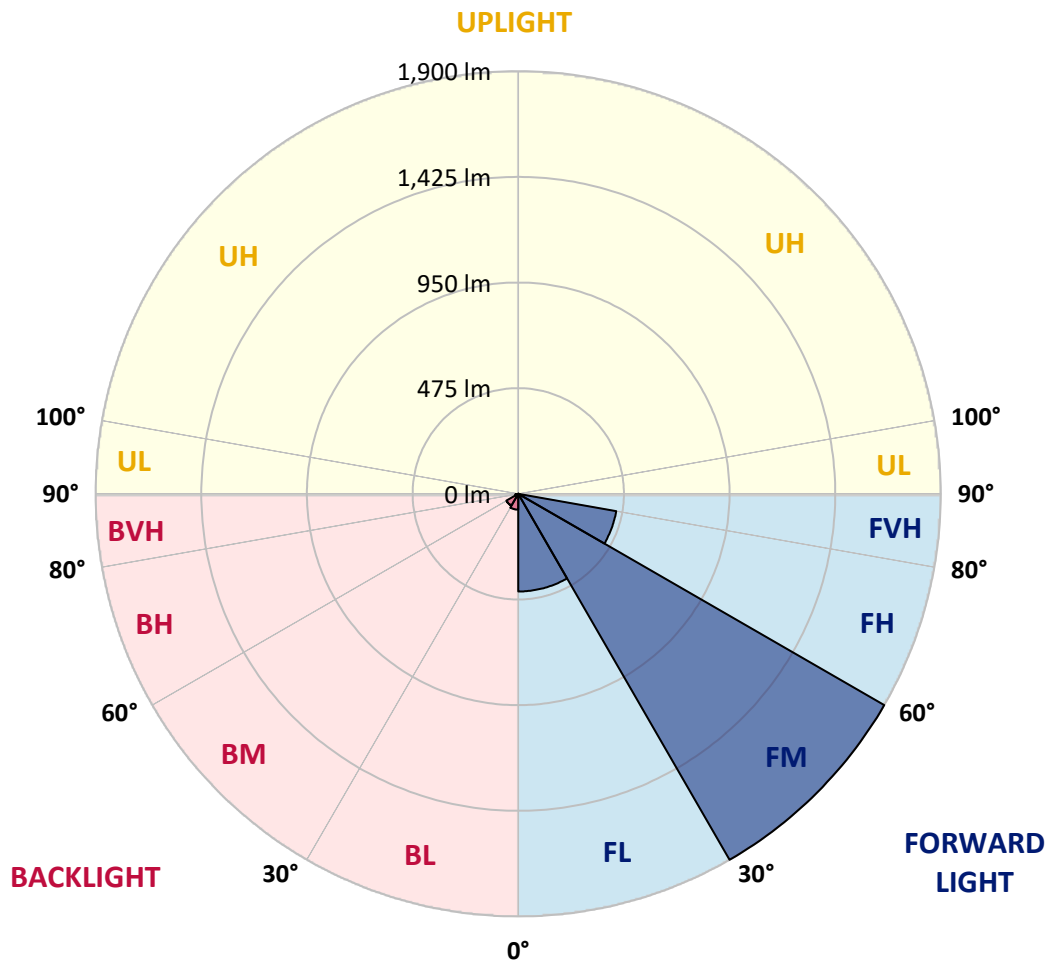


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.9	14.9			
FM (30°-60°)	1899.7	64.7			
FH (60°-80°)	447.1	15.2			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	71.3	2.4	B0/110		
BM (30°-60°)	61.6	2.1	B0/220		
BH (60°-80°)	13.5	0.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5
2.5°	825.2	812.9	813.2	807.7	787.3	771.3	754.7	750.7	724.9	697.7	671.6
5°	967.8	958.8	956.6	945.9	917.5	887.4	855.2	847.7	797.1	741.6	687.0
7.5°	1041.1	1041.2	1039.4	1035.5	1017.8	988.6	949.3	941.4	872.6	789.3	702.9
10°	1019.8	1024.6	1034.5	1047.6	1061.1	1057.4	1027.9	1020.8	946.0	839.7	720.7
12.5°	970.1	970.7	981.8	1003.2	1042.2	1082.3	1082.8	1080.4	1016.1	892.5	740.2
15°	945.4	947.8	951.8	965.7	1002.7	1066.8	1112.7	1116.2	1080.4	948.5	761.0
17.5°	961.6	965.0	961.6	963.2	984.7	1042.4	1117.9	1126.7	1136.6	1003.9	780.7
20°	1005.6	1008.8	1002.7	996.0	1000.1	1035.3	1114.3	1126.0	1180.6	1053.1	797.1
22.5°	1064.9	1066.2	1056.9	1045.9	1042.9	1059.4	1117.3	1129.5	1215.8	1097.6	807.5
25°	1130.2	1131.4	1119.8	1107.2	1099.9	1106.6	1142.3	1151.4	1246.9	1140.1	813.5
27.5°	1201.4	1202.4	1187.9	1172.3	1164.0	1164.2	1183.5	1193.2	1280.0	1188.6	818.3
30°	1276.5	1276.0	1262.7	1241.0	1230.4	1230.1	1242.8	1252.7	1327.9	1250.7	824.9
32.5°	1361.0	1360.0	1341.1	1314.2	1302.2	1303.9	1315.2	1320.9	1387.4	1316.9	836.7
35°	1472.2	1469.3	1440.7	1407.4	1385.2	1384.6	1394.1	1398.6	1463.2	1397.0	856.4
37.5°	1616.5	1613.8	1575.1	1526.7	1495.5	1483.9	1495.1	1501.0	1571.3	1499.8	887.9
40°	1758.7	1756.1	1733.1	1688.7	1640.7	1612.7	1621.5	1627.8	1706.4	1624.6	927.7
42.5°	1856.9	1859.2	1867.1	1870.8	1825.8	1767.0	1771.0	1777.5	1848.3	1758.0	973.3
45°	1882.7	1887.7	1932.8	2021.5	2038.3	1992.4	1949.9	1953.5	1992.4	1891.4	1018.8
47.5°	1805.0	1814.1	1901.3	2066.1	2208.9	2241.3	2160.9	2156.2	2130.7	1999.3	1051.1
50°	1628.4	1636.8	1749.6	1993.4	2260.6	2478.9	2413.7	2399.9	2252.1	2063.8	1062.5
52.5°	1372.8	1382.9	1474.6	1764.7	2163.1	2584.9	2653.1	2641.6	2341.1	2068.9	1064.4
55°	969.5	981.8	1078.8	1352.5	1854.1	2500.6	2738.0	2734.5	2415.0	2055.4	1068.5
57.5°	544.8	553.7	658.3	867.0	1357.9	2178.0	2649.3	2672.0	2459.6	2032.1	1074.6
60°	241.9	244.3	298.5	431.6	795.0	1664.5	2395.6	2433.9	2421.4	2000.9	1084.8
62.5°	134.1	132.1	132.1	179.4	345.5	1030.4	1953.5	2016.8	2257.9	1964.0	1085.3
65°	105.1	103.2	97.8	98.5	131.6	457.3	1352.7	1465.2	1947.5	1855.9	1048.8
67.5°	89.1	87.5	82.0	79.9	81.8	150.9	743.3	860.0	1477.8	1574.8	908.5
70°	75.3	74.2	71.4	68.7	63.9	74.6	284.4	363.8	910.6	1047.6	620.1
72.5°	60.6	60.1	61.1	58.8	53.0	49.7	97.2	117.8	409.0	467.5	255.5
75°	52.2	52.0	52.5	50.2	43.6	34.6	49.4	54.0	115.4	114.4	51.7
77.5°	34.0	34.4	43.5	42.5	37.5	23.1	25.6	27.6	35.0	26.2	15.7
80°	21.7	21.4	22.1	35.2	33.7	17.6	12.8	13.4	16.9	12.9	7.6
82.5°	13.2	12.9	14.5	16.5	17.0	12.3	7.9	8.0	10.5	8.4	4.1
85°	1.1	1.5	8.7	8.1	5.8	3.8	3.8	4.1	5.6	4.9	2.3
87.5°	0.0	0.0	1.5	2.3	1.3	1.4	1.4	1.5	2.2	2.2	1.1
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°	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5	657.5
2.5°	658.1	644.9	618.2	592.6	570.9	550.0	526.2	502.6	491.6	487.1	482.6
5°	659.2	632.1	577.2	521.9	464.6	413.0	369.0	323.8	301.3	291.4	286.8
7.5°	660.7	619.4	530.6	437.8	345.5	275.5	214.4	175.1	158.1	155.4	148.9
10°	661.0	604.0	476.6	345.0	231.6	166.1	127.8	107.5	100.0	98.8	96.6
12.5°	661.5	585.9	416.6	255.5	154.4	111.1	92.4	85.7	83.7	83.6	83.6
15°	663.0	566.9	354.4	184.1	110.9	88.0	81.1	78.5	77.7	78.1	78.0
17.5°	663.0	544.4	293.3	137.2	89.6	79.1	75.3	73.5	73.3	73.7	73.8
20°	658.2	517.2	237.2	106.8	79.5	73.4	70.0	68.3	67.7	68.0	68.1
22.5°	646.6	483.7	191.6	88.4	72.8	68.2	64.5	62.0	61.0	61.1	61.1
25°	628.6	444.0	149.9	76.5	67.3	62.6	58.3	55.4	54.8	54.6	54.9
27.5°	605.6	400.2	119.3	67.3	60.9	56.4	52.1	49.7	49.2	49.3	49.4
30°	582.9	354.6	94.1	59.6	53.6	49.4	46.2	45.0	45.0	45.4	45.5
32.5°	562.1	310.9	74.4	52.9	47.2	43.4	41.5	41.3	42.0	42.2	42.3
35°	544.2	270.4	61.6	47.7	42.1	38.8	38.2	38.7	39.4	39.9	40.1
37.5°	531.5	234.3	53.9	43.4	38.2	35.5	35.4	36.4	37.4	38.5	38.8
40°	526.2	203.8	48.6	39.6	35.0	33.0	32.6	34.0	35.9	37.5	37.8
42.5°	521.8	178.8	44.0	35.9	32.5	29.5	29.4	31.2	33.5	35.1	35.5
45°	517.9	158.7	39.8	32.0	29.2	25.4	25.7	28.0	29.8	31.6	32.0
47.5°	510.1	142.3	35.2	27.8	24.1	21.7	22.4	24.5	25.9	28.5	28.9
50°	496.0	128.8	30.6	22.7	19.7	18.8	19.9	21.3	23.1	25.4	25.6
52.5°	486.5	118.7	26.5	19.0	16.2	16.5	17.6	18.1	19.1	20.0	19.8
55°	481.1	113.1	23.2	16.5	13.8	14.6	14.8	14.2	13.7	12.8	12.4
57.5°	480.4	108.0	20.7	14.3	12.2	12.6	11.7	9.5	7.7	6.7	6.5
60°	479.4	101.8	18.6	12.0	10.8	10.3	8.4	5.2	3.7	3.4	3.4
62.5°	468.4	92.2	17.1	10.1	9.1	7.7	4.8	2.4	2.0	2.2	2.2
65°	433.3	78.7	15.6	8.2	7.2	5.6	2.4	1.4	0.8	0.9	0.9
67.5°	368.3	62.8	13.9	6.3	5.5	3.6	1.4	0.6	0.0	0.0	0.0
70°	246.6	38.9	11.8	4.4	3.6	2.2	1.0	0.1	0.0	0.0	0.0
72.5°	94.6	21.0	9.5	2.7	2.3	1.5	0.6	0.0	0.0	0.0	0.0
75°	21.3	13.8	6.6	1.9	1.6	1.0	0.3	0.0	0.0	0.0	0.0
77.5°	8.1	10.0	3.8	1.3	1.1	0.6	0.0	0.0	0.0	0.0	0.0
80°	3.9	6.0	1.8	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	2.3	0.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	1.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.4	0.1	0.1	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)