

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: P382760

Luminaire Tested: **GLEON-SA1B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382760
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-SA1B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 4286 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

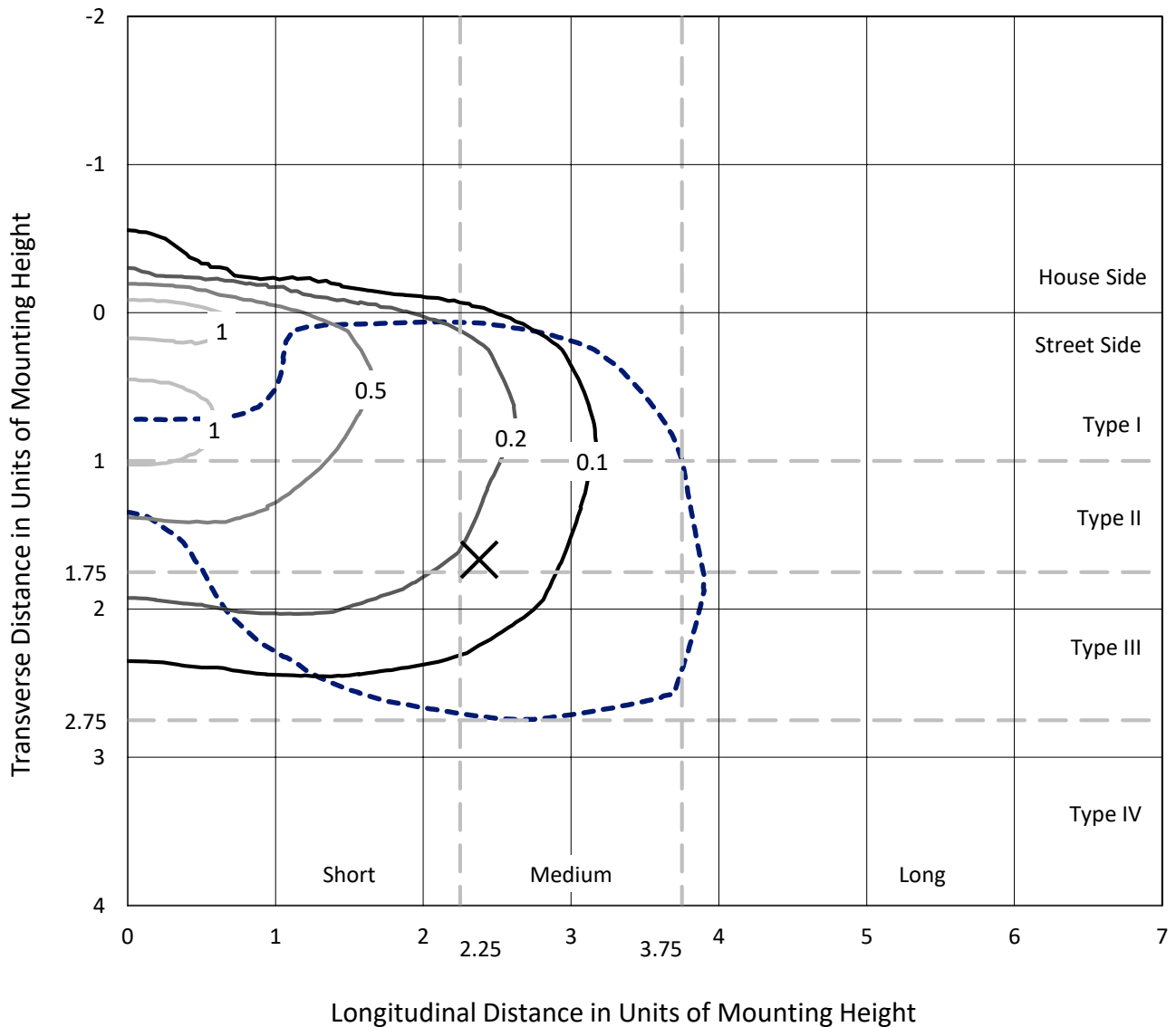
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

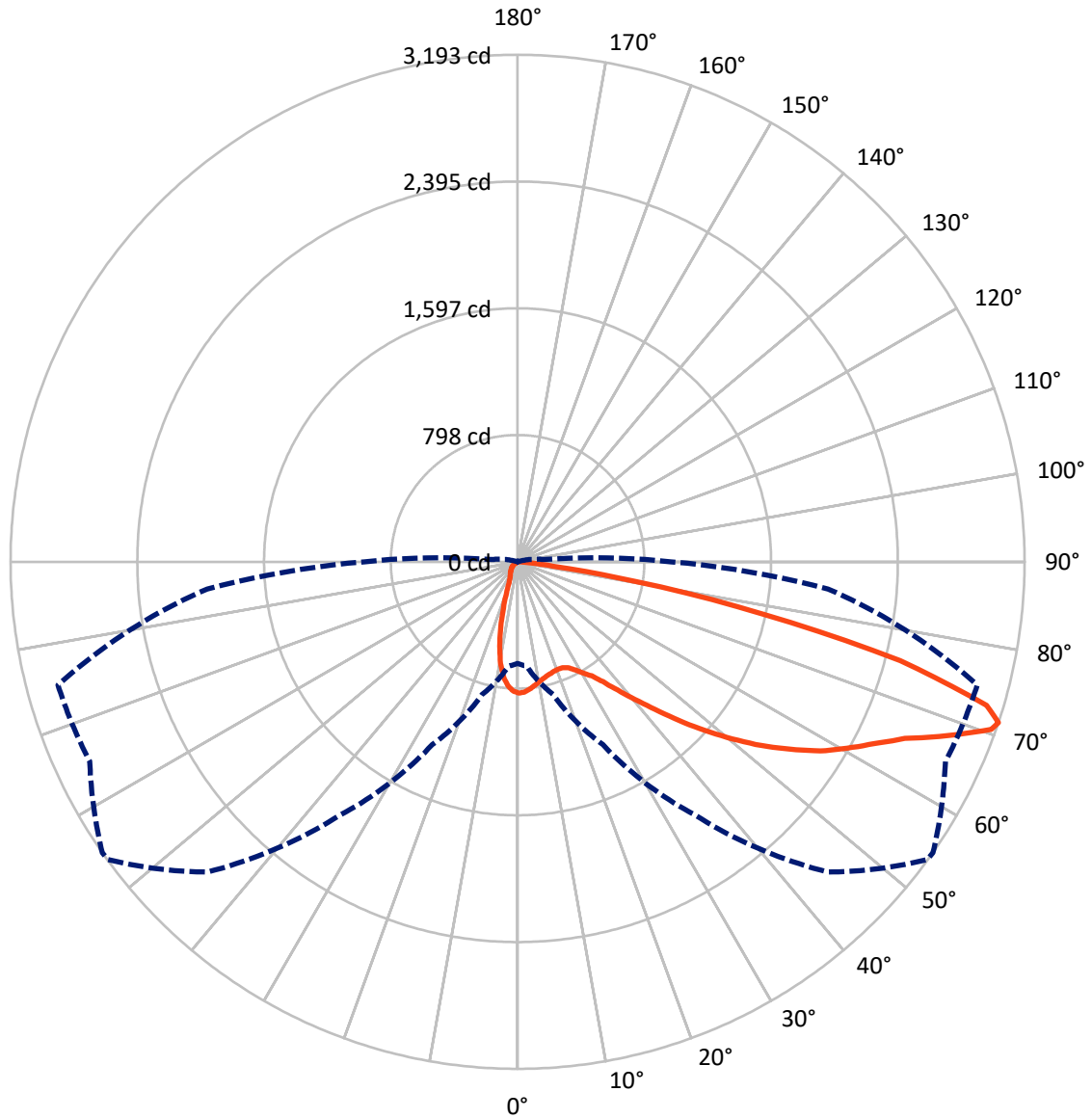
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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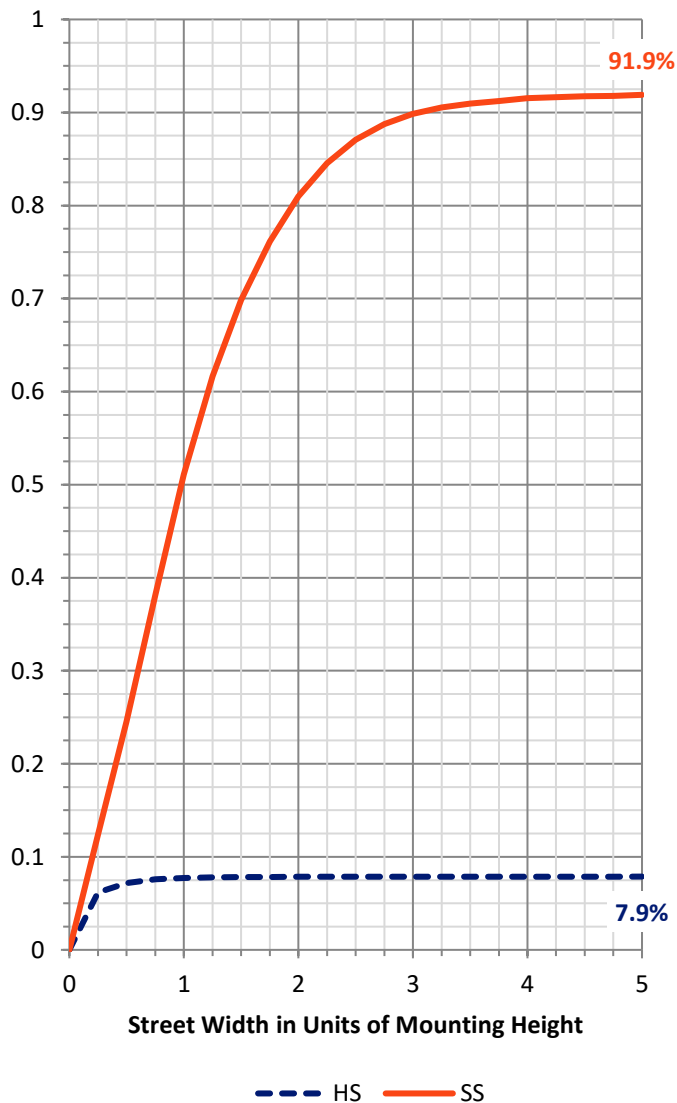
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	339.3	0.0	339.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3946.7	0.0	3946.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	4286.0	0.0	4286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.6
10°-20°	159.1	3.7
20°-30°	255.7	6.0
30°-40°	434.4	10.1
40°-50°	674.3	15.7
50°-60°	906.6	21.2
60°-70°	1109.0	25.9
70°-80°	648.4	15.1
80°-90°	28.0	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°	4286.0	100.0
0°-180°	4286.0	100.0

Coefficient of Utilization

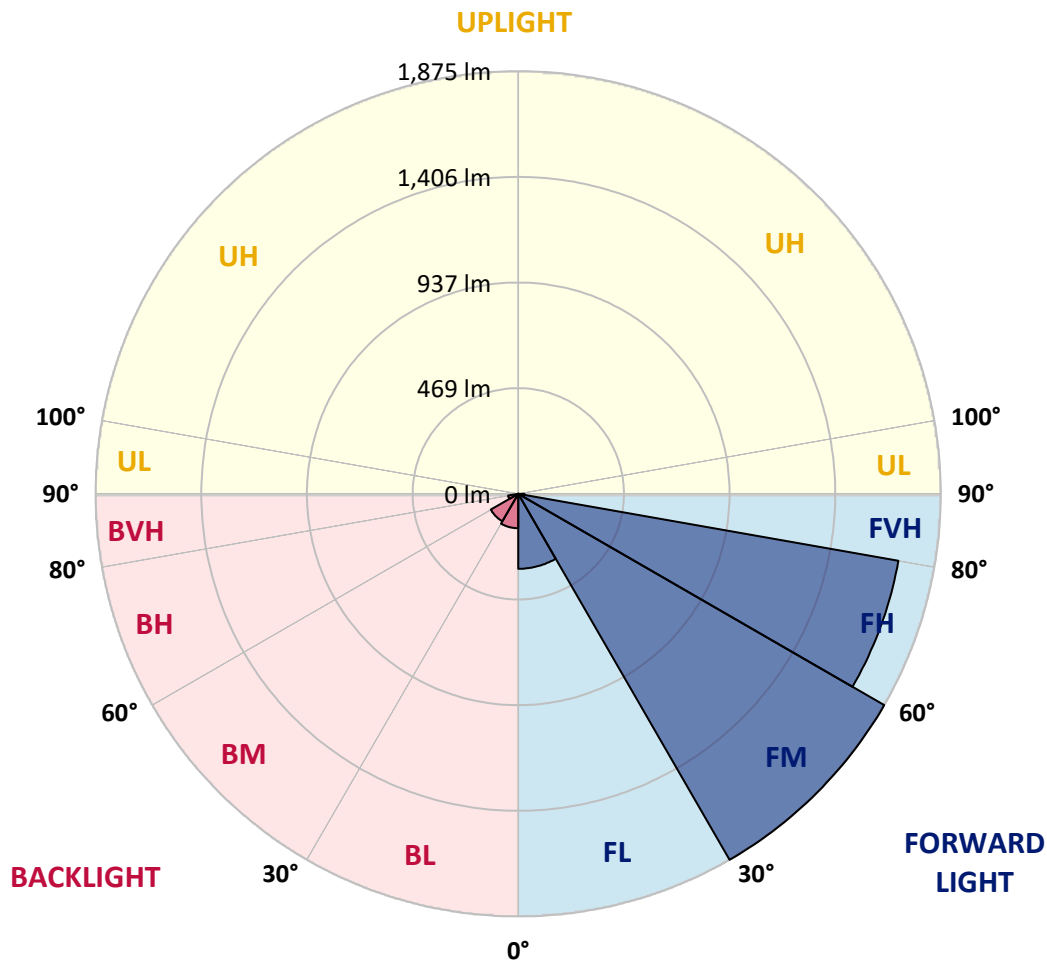


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.5	7.8			
FM (30°-60°)	1874.6	43.7			
FH (60°-80°)	1712.0	39.9			G1/1800
FVH (80°-90°)	27.6	0.6			G1/100
BL (0°-30°)	152.7	3.6	B1/500		
BM (30°-60°)	140.7	3.3	B0/220		
BH (60°-80°)	45.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	802.3	803.3	806.7	808.3	811.9	818.1	821.2	821.3	826.4	828.3	829.8
5°	745.5	751.3	757.1	763.3	774.4	789.2	803.8	805.2	821.3	833.4	839.7
7.5°	696.7	701.8	708.8	718.6	734.4	757.7	782.1	785.0	815.6	842.8	857.0
10°	646.4	650.7	660.7	675.1	696.9	728.0	761.0	765.7	810.4	855.4	880.5
12.5°	592.7	595.3	607.4	628.1	660.1	699.8	743.1	749.4	807.2	870.1	908.2
15°	551.9	553.1	564.6	586.2	622.7	674.3	729.2	736.9	807.9	887.6	938.4
17.5°	541.6	542.2	548.3	563.1	595.4	651.6	718.2	727.6	810.3	904.7	968.8
20°	583.7	579.7	573.3	571.0	584.8	638.0	711.7	722.2	813.3	919.9	996.1
22.5°	699.4	687.5	661.0	625.8	604.5	638.9	713.4	724.0	823.1	938.6	1027.7
25°	871.0	854.5	809.6	740.4	673.8	666.6	727.8	738.6	842.2	960.9	1057.9
27.5°	1066.3	1050.0	995.2	896.2	782.7	721.5	761.0	770.9	870.4	980.7	1081.0
30°	1253.4	1248.8	1184.2	1071.7	919.7	810.4	803.6	812.1	891.4	992.7	1099.3
32.5°	1412.0	1404.7	1352.7	1243.4	1076.6	917.2	853.9	856.4	907.2	1008.0	1123.2
35°	1559.0	1550.0	1504.4	1401.0	1237.5	1047.7	931.3	927.6	941.7	1039.0	1157.8
37.5°	1687.4	1695.7	1645.1	1546.7	1381.8	1183.3	1035.6	1024.6	995.5	1089.4	1208.0
40°	1794.8	1794.8	1768.4	1686.5	1537.7	1323.7	1153.5	1139.1	1076.6	1167.2	1271.7
42.5°	1833.5	1841.8	1851.5	1805.2	1677.3	1469.5	1285.0	1270.0	1190.7	1277.5	1352.1
45°	1835.8	1848.8	1899.1	1899.0	1803.3	1614.5	1433.2	1426.1	1337.0	1419.1	1451.8
47.5°	1803.3	1819.6	1902.4	1949.4	1903.2	1749.4	1595.3	1586.4	1508.8	1592.8	1556.2
50°	1753.1	1771.2	1867.4	1969.2	1971.1	1866.8	1765.9	1752.6	1698.0	1791.2	1663.9
52.5°	1663.2	1698.2	1836.0	1973.8	2015.8	1968.2	1928.4	1922.6	1909.7	1982.2	1749.7
55°	1470.9	1509.8	1757.3	1975.3	2057.1	2058.1	2080.6	2082.1	2108.1	2160.8	1813.6
57.5°	1380.1	1402.0	1619.9	1982.6	2118.5	2160.1	2235.7	2247.6	2287.9	2330.4	1886.6
60°	1322.9	1348.9	1552.1	1972.6	2214.9	2293.8	2379.5	2383.6	2426.6	2505.3	1985.3
62.5°	1277.3	1302.9	1509.4	1934.2	2323.3	2454.7	2519.9	2520.3	2552.7	2713.8	2097.6
65°	1164.7	1186.2	1423.0	1890.9	2394.9	2613.9	2683.1	2680.6	2707.0	2933.5	2227.8
67.5°	1001.9	1018.5	1246.5	1726.7	2367.9	2758.6	2929.5	2921.2	2889.3	3123.5	2279.0
70°	774.6	780.5	982.5	1439.0	2115.5	2814.2	3167.5	3163.3	3001.1	3089.4	2091.4
71°	640.3	659.9	865.9	1270.0	1946.3	2762.9	3190.6	3193.2	2973.0	2996.7	1962.2
72.5°	371.8	388.5	627.6	975.3	1652.4	2548.4	3070.9	3089.0	2841.8	2725.7	1676.0
75°	79.6	85.2	232.7	472.1	908.9	1786.1	2423.9	2488.4	2316.2	1854.2	1010.2
77.5°	55.4	59.9	99.7	214.2	300.4	882.5	1505.8	1578.5	1383.7	696.9	323.3
80°	43.9	48.9	77.8	105.8	81.2	284.7	705.4	749.8	461.5	155.5	54.5
82.5°	24.4	29.1	60.6	57.2	31.2	54.1	197.5	223.2	92.4	31.4	12.9
85°	7.1	8.7	39.0	41.5	13.3	10.4	33.7	41.7	17.5	8.3	5.8
87.5°	0.0	0.0	18.8	15.9	3.8	1.6	3.1	3.4	3.4	3.4	3.8
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°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	829.8	831.2	826.4	820.0	813.3	805.0	796.4	789.7	789.4	786.1	782.9
5°	840.1	839.3	826.0	805.8	781.9	757.1	733.4	706.7	697.8	686.8	683.2
7.5°	858.9	853.5	825.4	781.2	728.8	676.9	623.1	569.1	546.0	525.2	521.6
10°	882.5	872.4	821.8	744.2	648.2	552.3	471.3	397.8	365.4	340.7	339.5
12.5°	907.2	891.6	811.6	688.4	542.5	407.8	314.5	242.1	215.2	197.9	199.4
15°	933.0	909.7	789.7	613.1	422.3	276.8	193.2	150.7	139.9	135.4	136.7
17.5°	959.4	922.2	759.0	522.5	303.5	178.6	133.8	121.8	121.8	122.8	123.2
20°	982.3	928.9	714.0	420.9	205.7	130.1	117.0	115.2	116.3	117.7	117.9
22.5°	1005.0	929.3	655.3	317.9	143.9	113.9	111.4	110.7	111.2	113.0	113.2
25°	1023.5	924.7	581.8	226.1	114.9	107.4	106.2	105.8	106.2	108.3	108.3
27.5°	1030.9	908.0	492.1	158.9	102.9	100.0	99.7	100.0	100.6	102.2	102.4
30°	1031.7	878.7	394.3	115.0	93.3	90.3	91.0	92.4	91.8	91.4	91.8
32.5°	1033.6	844.8	299.0	94.6	85.2	80.5	79.5	79.5	77.1	75.8	75.1
35°	1040.0	805.0	216.9	85.1	76.9	71.4	67.7	63.5	59.1	56.7	56.2
37.5°	1050.0	763.3	155.3	78.7	69.7	63.3	56.4	48.9	42.6	40.8	40.8
40°	1068.3	720.2	114.9	73.7	63.9	56.0	45.6	35.8	30.0	29.1	29.1
42.5°	1097.2	674.7	91.6	69.3	58.9	48.5	34.8	26.0	21.7	21.1	21.0
45°	1127.2	624.7	80.0	65.0	53.5	39.9	25.8	19.3	16.8	16.2	16.2
47.5°	1157.2	571.4	74.5	61.0	48.3	31.0	19.3	15.2	14.1	14.1	14.3
50°	1182.6	515.8	70.4	56.5	41.5	23.5	15.2	12.9	12.5	13.3	13.5
52.5°	1188.9	461.1	65.4	51.0	33.3	17.9	12.5	11.4	11.4	11.4	11.4
55°	1185.1	418.7	58.9	44.1	24.6	14.3	10.8	10.0	9.8	9.8	9.8
57.5°	1198.2	393.8	47.1	34.3	17.7	11.6	9.4	8.8	8.5	8.3	8.3
60°	1224.6	377.4	33.7	24.6	13.3	9.6	8.1	7.5	6.9	6.5	6.5
62.5°	1259.6	363.1	25.1	18.3	10.2	7.7	6.7	6.1	5.4	5.0	5.0
65°	1286.6	337.8	19.1	13.7	7.7	6.1	5.2	5.0	3.8	3.4	3.3
67.5°	1245.4	282.0	15.4	10.0	5.8	4.8	4.0	3.8	2.3	2.0	2.0
70°	1068.1	196.3	12.3	7.4	4.2	3.8	3.3	2.5	1.8	1.6	1.6
71°	968.6	164.0	11.2	6.1	3.6	3.6	3.1	2.1	1.6	1.3	1.3
72.5°	804.7	116.4	9.4	4.8	3.3	3.8	3.3	2.0	1.6	1.3	1.1
75°	467.1	48.7	6.5	3.3	2.5	4.7	4.2	1.8	1.1	0.9	0.9
77.5°	140.5	17.9	3.6	2.1	2.0	4.0	4.8	1.6	0.6	0.2	0.2
80°	25.6	7.7	2.3	1.3	1.3	2.5	3.6	0.7	0.0	0.0	0.0
82.5°	9.0	3.8	1.3	0.7	0.6	1.1	1.8	0.0	0.0	0.0	0.0
85°	5.2	2.7	0.7	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0
87.5°	3.4	0.7	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)