

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: P382754

Luminaire Tested: **GLEON-SA1B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3964.7 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

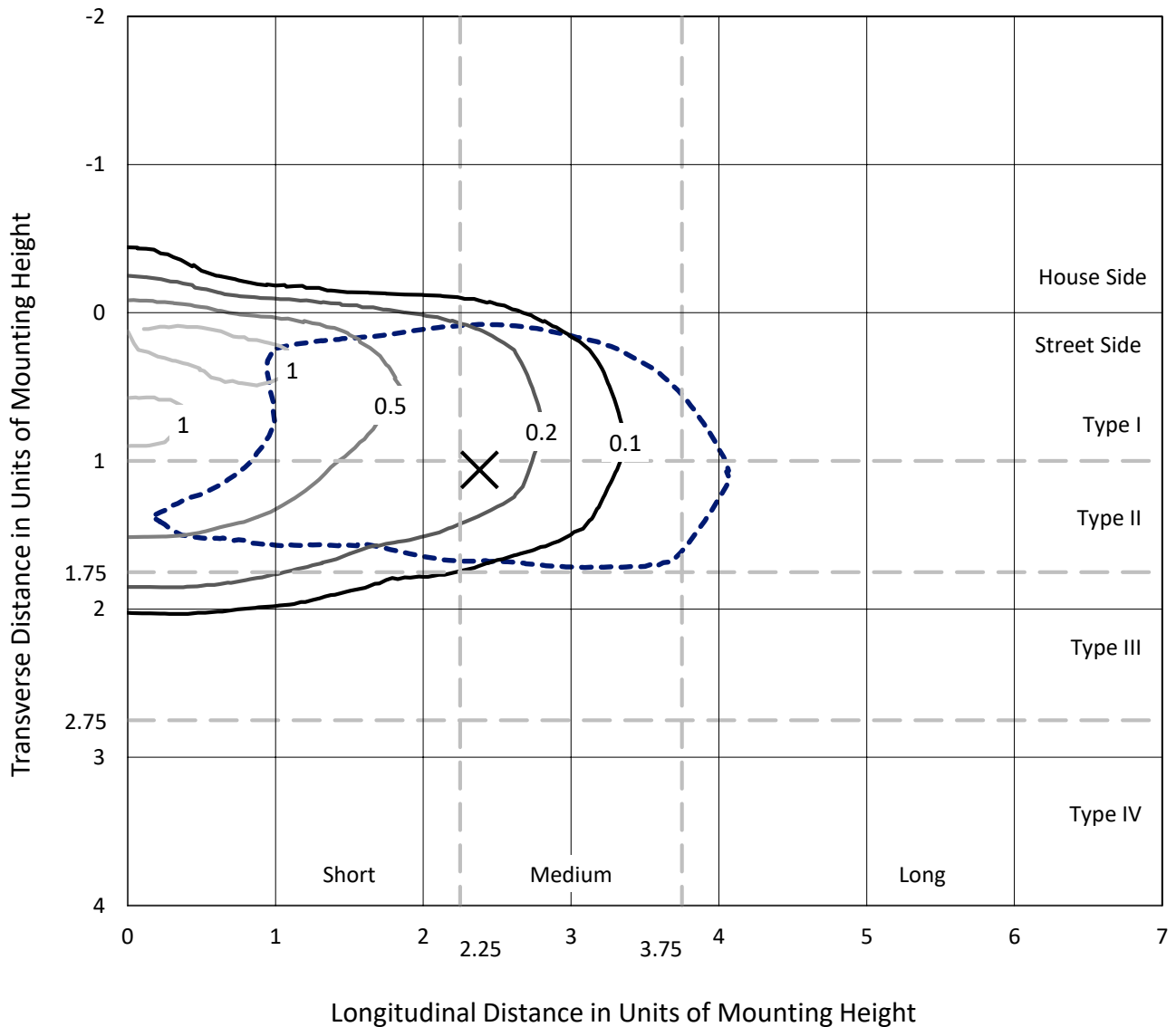
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

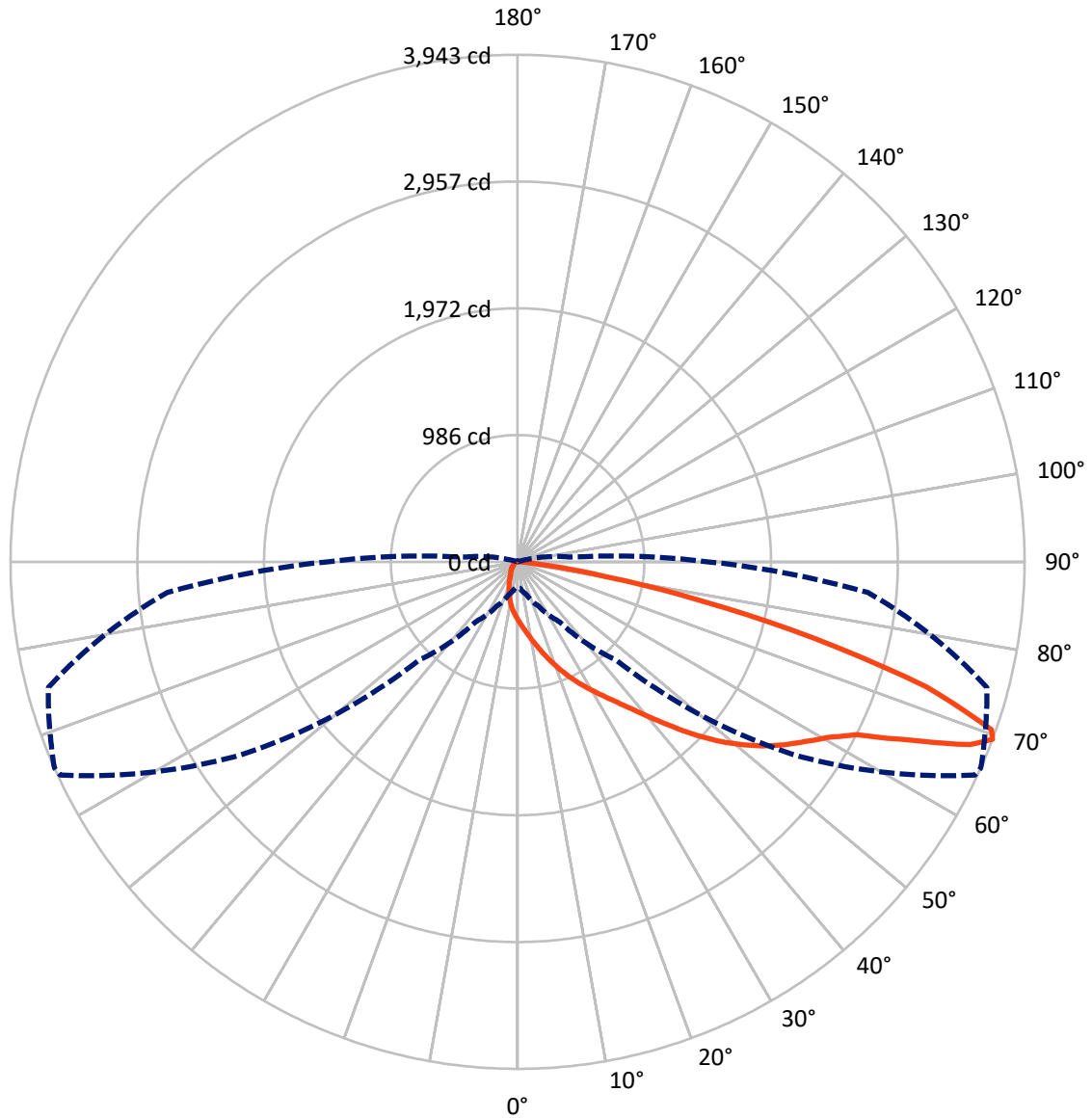
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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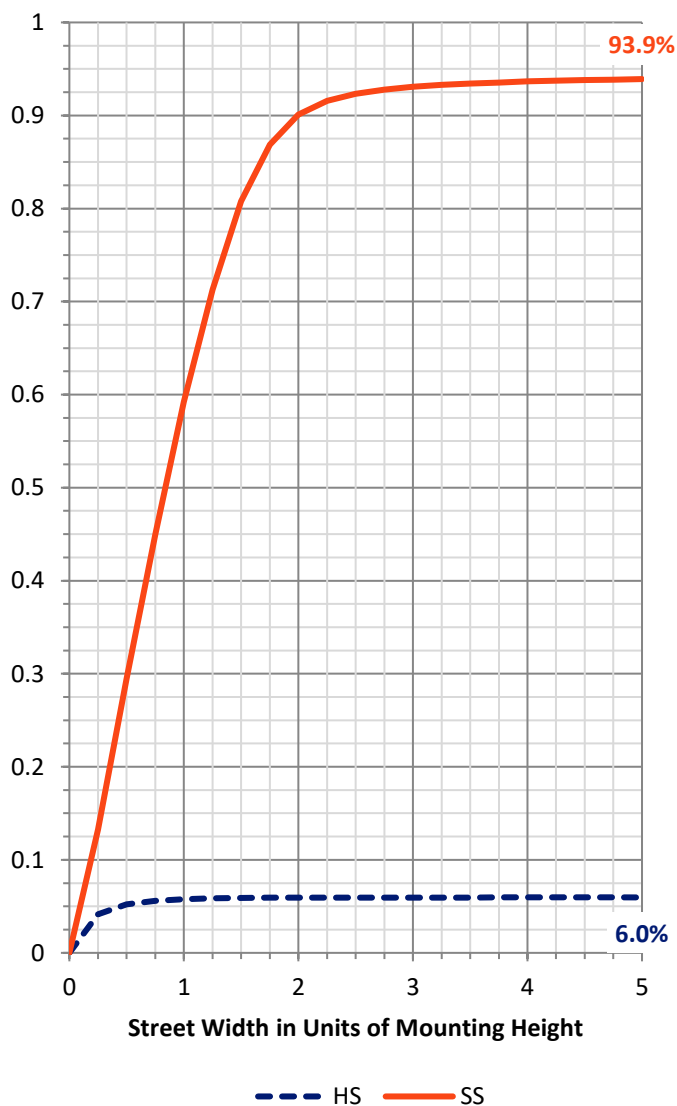
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	237.8	0.0	237.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3726.8	0.0	3726.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	3964.7	0.0	3964.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	129.8	3.3
20°-30°	226.0	5.7
30°-40°	396.6	10.0
40°-50°	663.8	16.7
50°-60°	975.7	24.6
60°-70°	1001.8	25.3
70°-80°	494.6	12.5
80°-90°	32.7	0.8
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°	3964.7	100.0
0°-180°	3964.7	100.0

Coefficient of Utilization



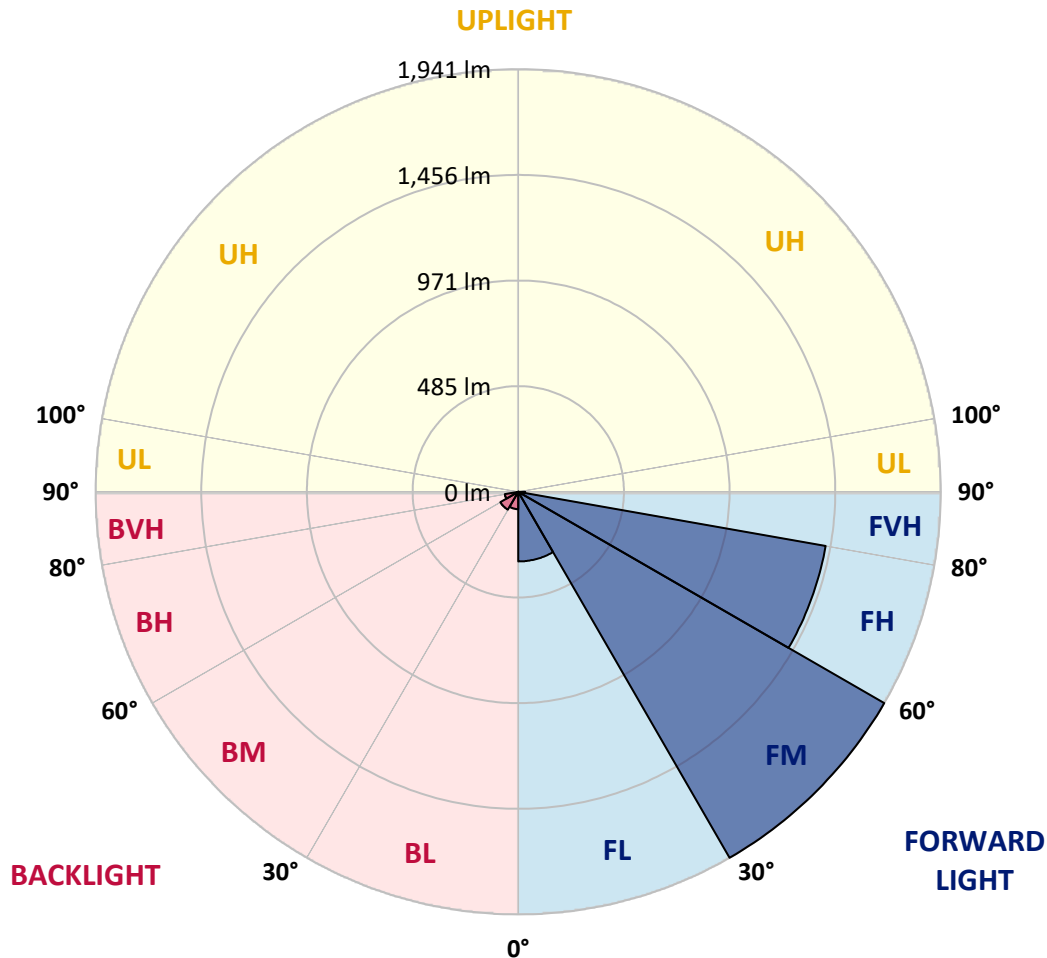
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.9	8.1			
FM (30°-60°)	1941.3	49.0			
FH (60°-80°)	1433.7	36.2			G1/1800
FVH (80°-90°)	31.9	0.8			G1/100
BL (0°-30°)	79.5	2.0	B0/110		
BM (30°-60°)	94.8	2.4	B0/220		
BH (60°-80°)	62.7	1.6	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1
2.5°	531.1	528.7	527.8	523.7	516.5	511.0	500.5	488.3	486.0	474.2	459.6
5°	599.9	598.1	596.7	590.9	583.6	569.8	550.6	527.8	523.5	500.9	471.9
7.5°	648.0	651.3	651.3	647.6	638.4	628.0	604.5	573.4	568.0	533.3	488.3
10°	676.0	680.2	683.4	686.6	685.2	681.1	658.9	623.9	617.2	571.3	507.3
12.5°	678.6	682.8	691.9	705.2	718.2	727.6	713.7	679.8	672.3	615.4	529.9
15°	664.0	668.3	682.3	708.3	739.6	767.2	771.7	741.8	734.1	667.9	558.2
17.5°	638.4	641.2	661.1	697.2	746.4	796.9	824.2	808.2	801.0	728.0	589.6
20°	619.4	621.4	638.9	677.5	742.4	815.6	874.0	878.8	871.3	792.4	623.7
22.5°	651.9	655.7	656.3	674.5	731.0	824.8	917.7	948.3	942.7	860.7	657.2
25°	741.0	745.3	731.0	719.7	740.6	829.0	955.1	1019.5	1015.0	934.4	690.9
27.5°	858.7	863.2	844.7	811.1	790.9	844.5	988.5	1091.9	1091.7	1012.3	727.3
30°	974.3	978.9	960.1	926.3	879.9	888.8	1017.2	1167.5	1168.6	1092.8	765.8
32.5°	1095.6	1101.3	1081.8	1038.5	990.1	965.3	1057.8	1243.6	1250.0	1186.0	809.3
35°	1233.5	1234.2	1206.9	1161.5	1105.7	1067.6	1122.7	1328.9	1344.1	1301.4	864.6
37.5°	1368.6	1374.1	1351.7	1280.1	1228.9	1185.6	1219.3	1435.5	1457.1	1442.5	936.7
40°	1468.9	1480.3	1477.1	1399.9	1351.3	1320.5	1339.3	1562.2	1589.7	1606.6	1027.6
42.5°	1531.7	1540.4	1555.0	1508.5	1464.5	1469.6	1480.9	1709.9	1743.8	1793.9	1132.1
45°	1603.8	1607.9	1620.2	1599.7	1569.9	1621.2	1631.1	1876.1	1911.7	1995.2	1248.1
47.5°	1692.0	1701.8	1705.1	1686.3	1672.8	1755.2	1776.0	2027.3	2077.3	2210.7	1370.9
50°	1804.2	1806.8	1812.7	1800.4	1786.9	1870.5	1905.9	2186.1	2231.5	2427.1	1492.0
52.5°	1914.0	1923.4	1943.8	1936.0	1930.5	1968.6	2021.7	2329.2	2379.8	2607.5	1612.9
55°	1945.6	1953.7	2024.0	2071.9	2116.4	2089.5	2132.4	2457.4	2512.3	2768.7	1729.2
57.5°	1819.3	1835.6	1957.3	2082.4	2266.7	2277.4	2284.6	2589.1	2638.2	2892.3	1850.3
60°	1499.9	1503.1	1702.7	1917.2	2241.9	2441.4	2506.8	2730.5	2771.7	3007.3	1995.4
62.5°	954.0	986.6	1205.6	1508.4	1979.0	2417.7	2775.5	2944.4	2959.5	3145.4	2203.2
65°	454.4	475.5	633.3	931.9	1433.5	2114.0	2961.0	3331.4	3338.2	3419.0	2481.0
67.5°	251.6	261.8	336.8	501.6	838.0	1495.0	2886.0	3789.7	3796.1	3698.4	2724.7
69°	196.7	205.4	264.6	378.1	568.2	1074.5	2611.7	3924.1	3943.1	3778.5	2733.3
70°	167.0	175.5	227.9	319.3	456.8	830.3	2324.7	3890.7	3910.8	3770.9	2668.7
72.5°	102.3	107.1	151.7	224.9	306.2	417.7	1433.7	3290.3	3324.4	3459.1	2293.7
75°	68.9	71.5	94.9	155.2	219.0	215.1	744.8	2319.3	2393.1	2690.8	1694.0
77.5°	49.4	51.8	63.6	100.3	153.5	142.0	337.2	1441.3	1457.1	1613.8	923.8
80°	28.0	30.3	45.0	59.7	104.1	94.7	134.0	688.5	696.3	692.0	308.4
82.5°	14.7	16.6	24.7	39.3	66.9	61.9	55.7	230.5	231.6	192.6	67.6
85°	2.8	3.4	12.2	26.9	34.5	26.9	22.8	54.0	55.1	48.8	16.8
87.5°	0.0	0.2	4.9	6.1	6.8	7.0	7.4	10.5	11.3	15.3	4.6
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°	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1	451.1
2.5°	453.3	446.5	433.4	418.5	406.7	395.3	386.2	376.8	373.5	371.7	371.5
5°	457.8	443.5	415.9	387.7	364.6	342.7	327.1	312.3	305.3	302.0	300.7
7.5°	465.3	442.3	398.1	354.9	321.7	294.4	272.7	256.5	248.4	245.0	243.7
10°	474.2	440.8	377.2	320.4	277.8	249.5	228.0	212.0	203.2	199.4	197.6
12.5°	484.5	438.2	353.1	285.3	240.2	212.0	186.0	166.3	156.1	151.7	149.7
15°	497.4	435.6	327.8	252.4	207.4	172.9	144.4	131.1	129.0	128.3	128.5
17.5°	509.9	431.4	300.3	219.8	172.7	135.0	120.5	119.8	120.2	120.2	120.2
20°	521.2	422.0	270.4	191.9	139.7	113.9	110.9	109.6	108.6	107.9	106.9
22.5°	530.1	409.4	241.6	164.2	114.1	104.3	99.6	95.5	92.1	89.8	88.7
25°	536.1	392.6	215.3	137.7	102.7	94.9	86.4	79.5	74.2	71.0	69.7
27.5°	540.7	374.6	191.7	115.2	94.7	84.0	72.8	64.6	59.2	56.3	55.1
30°	543.8	354.0	171.0	101.4	85.9	72.5	60.6	52.5	48.6	47.0	46.3
32.5°	546.8	331.3	151.4	94.7	77.6	61.9	50.9	44.6	42.2	40.3	39.8
35°	554.4	310.1	132.7	87.8	69.1	52.9	43.7	39.1	36.7	35.6	35.2
37.5°	572.2	294.6	114.9	80.6	60.6	45.7	38.2	35.0	32.8	31.7	31.3
40°	601.1	286.6	99.8	72.8	52.4	40.3	34.7	31.7	29.2	27.5	27.1
42.5°	643.4	287.8	89.2	65.1	45.7	36.0	31.3	27.7	25.1	23.6	23.2
45°	694.8	296.0	81.9	57.7	40.3	32.6	27.5	23.8	21.2	19.9	19.6
47.5°	750.6	309.4	75.9	50.9	36.0	29.3	23.8	19.7	17.7	16.6	16.4
50°	809.3	322.4	69.7	44.2	32.2	26.2	19.9	16.4	14.7	13.8	13.4
52.5°	868.9	337.4	64.0	38.2	29.0	22.5	16.6	13.4	12.0	11.3	10.9
55°	932.9	348.8	58.6	33.5	25.8	19.0	13.8	11.1	10.0	9.0	8.8
57.5°	1008.2	366.3	52.9	29.0	22.1	15.8	11.3	8.8	7.9	7.0	6.8
60°	1109.9	386.8	46.9	25.6	18.1	12.9	9.2	7.2	6.1	5.3	5.1
62.5°	1244.0	409.6	39.3	22.5	14.7	10.5	7.4	5.7	4.3	3.4	3.4
65°	1414.0	446.7	32.2	18.8	12.0	8.7	5.7	4.1	2.4	1.5	1.5
67.5°	1513.3	453.1	26.0	15.5	9.8	7.4	4.8	2.8	0.7	0.2	0.0
69°	1481.4	415.9	22.1	13.2	8.5	7.0	4.3	2.0	0.4	0.0	0.0
70°	1421.5	380.4	19.4	11.6	7.7	6.6	4.1	1.5	0.4	0.0	0.0
72.5°	1174.7	270.8	14.7	8.7	5.7	5.9	3.7	0.9	0.4	0.0	0.0
75°	855.7	164.6	10.5	6.1	3.5	4.3	2.6	0.4	0.2	0.0	0.0
77.5°	476.0	77.6	6.6	3.4	2.2	2.6	1.3	0.0	0.0	0.0	0.0
80°	154.6	21.1	3.0	1.9	1.3	1.5	0.6	0.0	0.0	0.0	0.0
82.5°	28.6	6.1	1.7	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.2	2.4	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	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)