

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: P382810

Luminaire Tested: **GLEON-SA1D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382810
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-SA1D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA 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: 5384.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

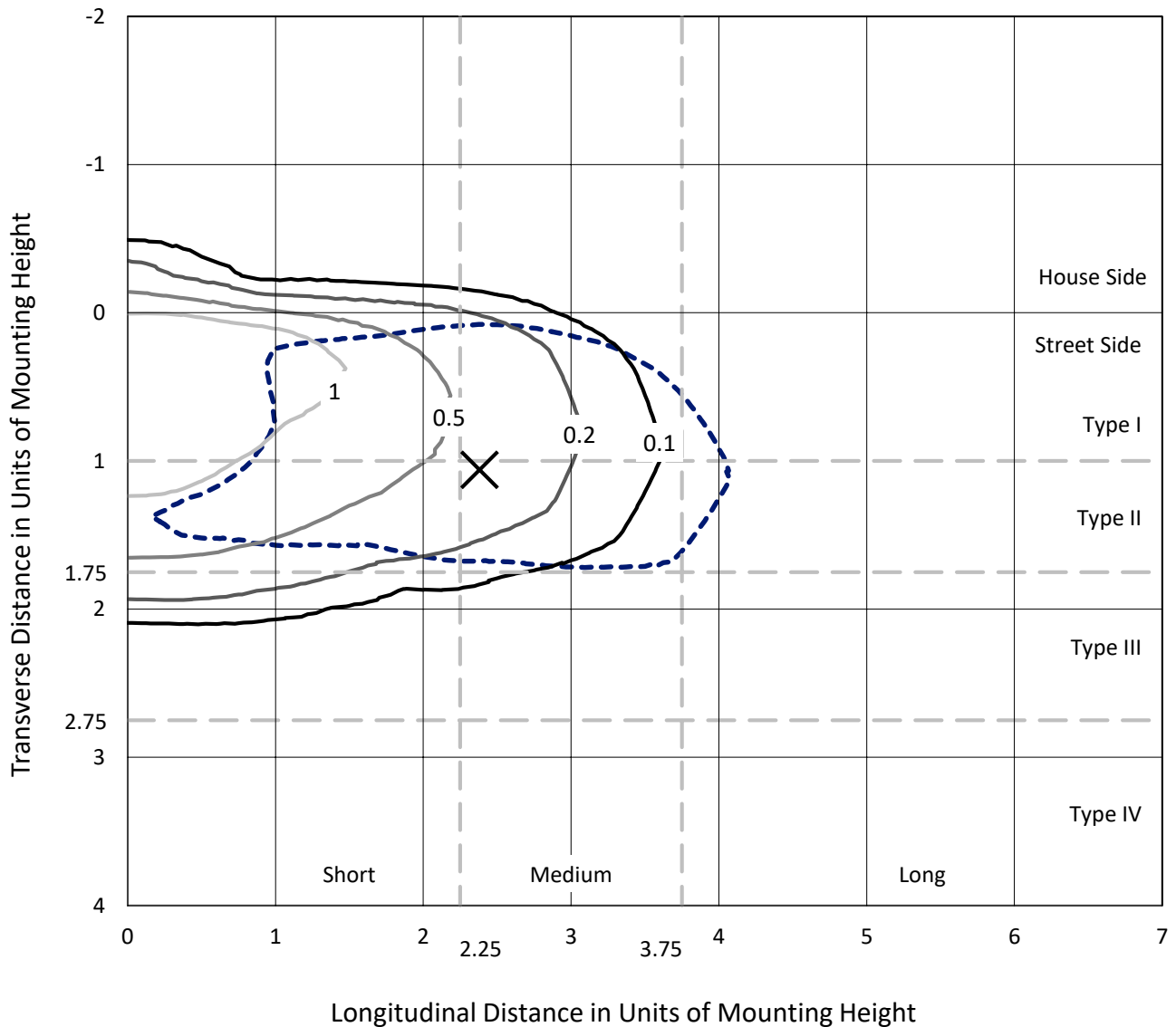
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

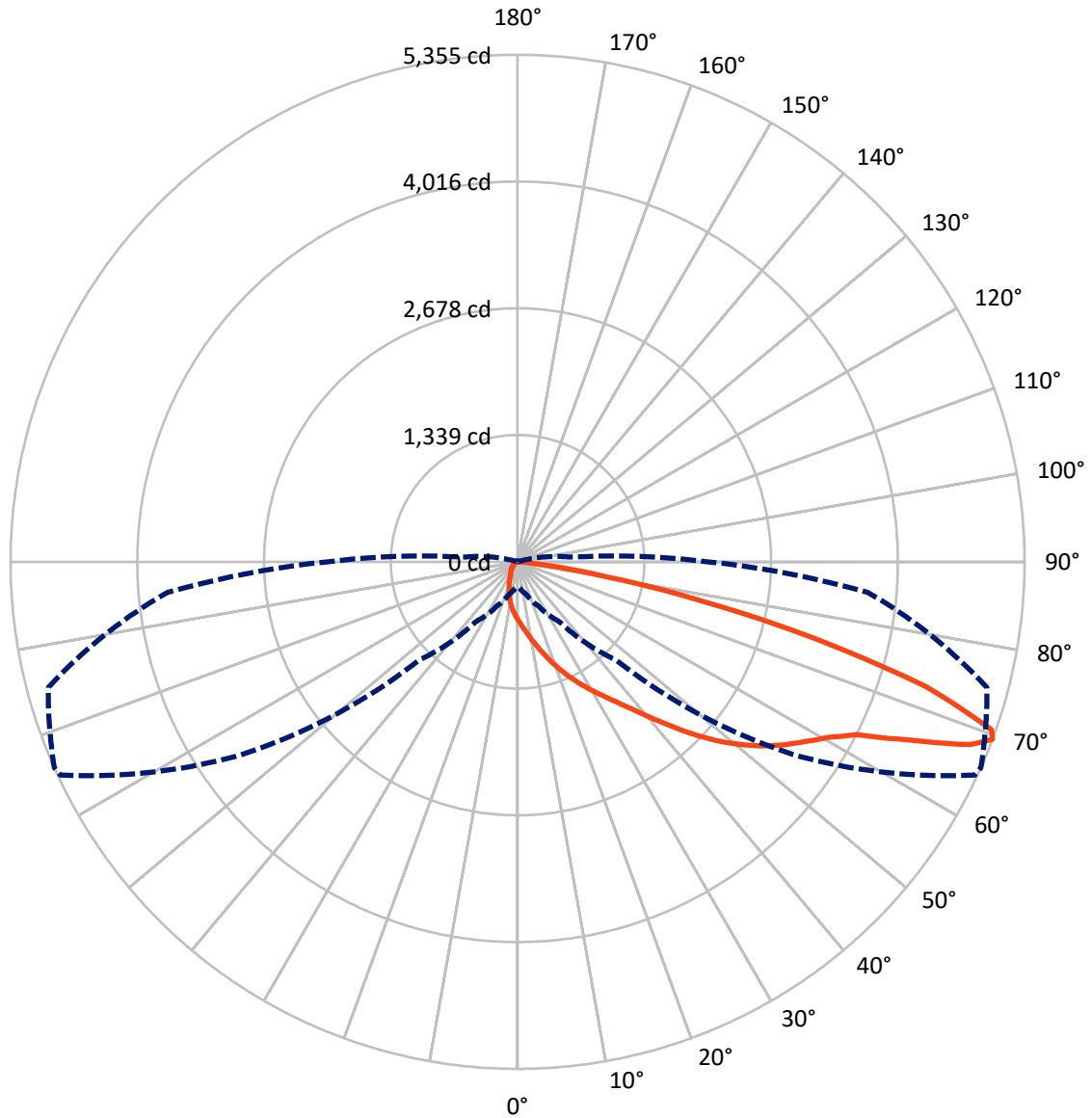
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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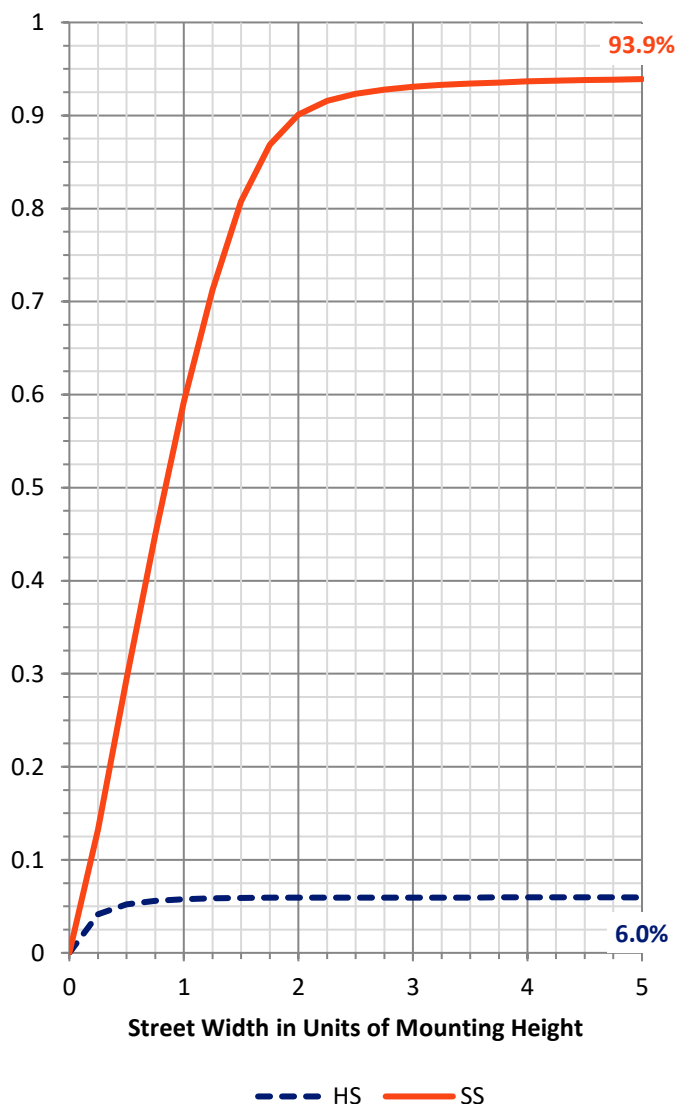
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.0	0.0	323.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5061.4	0.0	5061.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	5384.3	0.0	5384.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.1
10°-20°	176.3	3.3
20°-30°	307.0	5.7
30°-40°	538.6	10.0
40°-50°	901.5	16.7
50°-60°	1325.1	24.6
60°-70°	1360.6	25.3
70°-80°	671.7	12.5
80°-90°	44.4	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°	5384.3	100.0
0°-180°	5384.3	100.0

Coefficient of Utilization

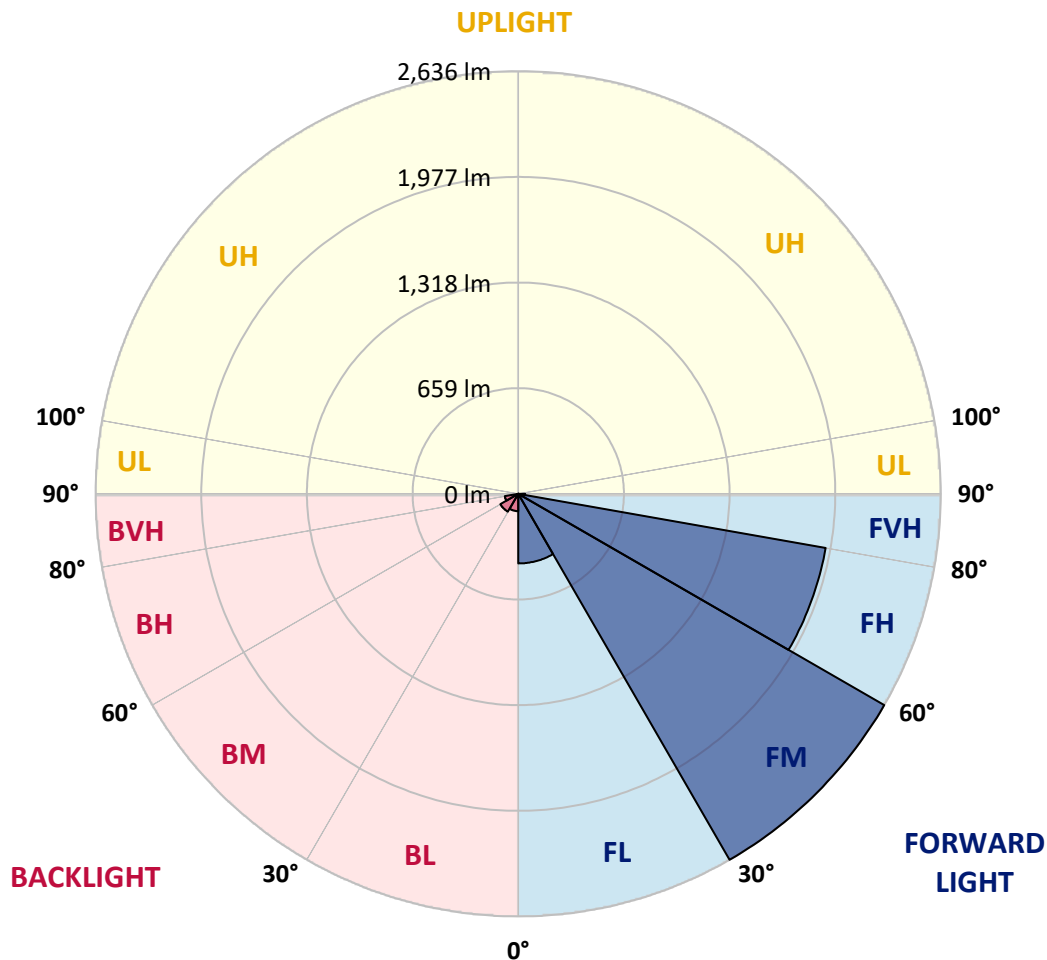


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.5	8.1			
FM (30°-60°)	2636.4	49.0			
FH (60°-80°)	1947.1	36.2			G2/5000
FVH (80°-90°)	43.3	0.8			G1/100
BL (0°-30°)	108.0	2.0	B0/110		
BM (30°-60°)	128.8	2.4	B0/220		
BH (60°-80°)	85.1	1.6	B0/110		G0/110
BVH (80°-90°)	1.1	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8
2.5°	721.2	718.1	716.8	711.2	701.5	694.1	679.8	663.2	660.1	644.0	624.2
5°	814.8	812.2	810.4	802.5	792.6	773.8	747.8	716.8	711.0	680.3	640.9
7.5°	880.0	884.6	884.6	879.5	867.0	852.9	821.0	778.8	771.3	724.3	663.2
10°	918.1	923.7	928.1	932.4	930.6	925.0	894.8	847.2	838.3	775.9	689.0
12.5°	921.7	927.4	939.6	957.7	975.4	988.2	969.3	923.3	913.0	835.8	719.6
15°	901.7	907.6	926.5	961.8	1004.6	1041.8	1048.0	1007.4	996.8	907.1	758.0
17.5°	867.0	870.8	897.9	946.7	1013.8	1082.3	1119.3	1097.6	1088.0	988.7	800.8
20°	841.1	844.0	867.7	920.2	1008.1	1107.6	1186.9	1193.5	1183.3	1076.1	847.1
22.5°	885.3	890.5	891.2	916.1	992.8	1120.2	1246.2	1288.0	1280.2	1169.0	892.5
25°	1006.4	1012.2	992.8	977.5	1005.8	1125.8	1297.1	1384.6	1378.4	1269.0	938.3
27.5°	1166.2	1172.4	1147.3	1101.5	1074.1	1147.0	1342.4	1482.7	1482.6	1374.9	987.6
30°	1323.2	1329.3	1303.8	1258.0	1195.1	1207.1	1381.5	1585.6	1587.2	1484.0	1040.1
32.5°	1487.9	1495.6	1469.2	1410.5	1344.7	1311.0	1436.5	1688.9	1697.7	1610.6	1099.1
35°	1675.1	1676.1	1639.1	1577.4	1501.7	1449.8	1524.8	1804.8	1825.5	1767.4	1174.1
37.5°	1858.7	1866.2	1835.7	1738.5	1669.0	1610.2	1655.9	1949.5	1978.9	1959.0	1272.0
40°	1994.8	2010.4	2006.0	1901.2	1835.2	1793.2	1818.8	2121.6	2159.0	2182.0	1395.6
42.5°	2080.2	2092.0	2111.9	2048.8	1988.9	1995.8	2011.1	2322.2	2368.2	2436.2	1537.5
45°	2178.1	2183.7	2200.4	2172.6	2132.1	2201.7	2215.2	2548.0	2596.3	2709.6	1695.0
47.5°	2297.8	2311.2	2315.7	2290.1	2271.8	2383.7	2411.9	2753.3	2821.1	3002.4	1861.8
50°	2450.2	2453.9	2461.8	2445.1	2426.7	2540.2	2588.4	2968.9	3030.5	3296.3	2026.2
52.5°	2599.4	2612.2	2639.7	2629.3	2621.8	2673.5	2745.6	3163.3	3232.1	3541.3	2190.4
55°	2642.3	2653.3	2748.7	2813.9	2874.3	2837.7	2896.0	3337.5	3411.9	3760.2	2348.4
57.5°	2470.7	2493.0	2658.2	2828.0	3078.4	3092.9	3102.6	3516.2	3582.9	3928.0	2512.9
60°	2037.0	2041.3	2312.4	2603.7	3044.6	3315.7	3404.4	3708.2	3764.3	4084.2	2709.9
62.5°	1295.6	1339.8	1637.3	2048.5	2687.6	3283.4	3769.4	3998.8	4019.3	4271.6	2992.1
65°	617.1	645.7	860.1	1265.7	1946.7	2870.9	4021.3	4524.3	4533.6	4643.2	3369.4
67.5°	341.7	355.5	457.5	681.3	1138.1	2030.3	3919.5	5146.8	5155.5	5022.7	3700.3
69°	267.3	279.0	359.3	513.6	771.6	1459.3	3546.9	5329.1	5355.0	5131.4	3712.1
70°	226.8	238.4	309.5	433.7	620.4	1127.5	3157.1	5283.8	5311.2	5121.2	3624.4
72.5°	138.9	145.5	206.2	305.4	415.8	567.2	1946.9	4468.5	4514.8	4697.7	3114.9
75°	93.6	97.2	128.9	210.7	297.4	292.0	1011.5	3149.7	3250.0	3654.3	2300.6
77.5°	67.0	70.3	86.4	136.3	208.4	192.8	458.0	1957.5	1978.9	2191.7	1254.7
80°	38.1	41.2	61.1	81.0	141.4	128.6	182.1	935.0	945.7	939.8	418.9
82.5°	19.9	22.5	33.5	53.5	90.8	84.1	75.7	313.0	314.6	261.6	91.9
85°	3.8	4.6	16.6	36.6	46.8	36.6	30.9	73.4	74.9	66.2	22.7
87.5°	0.0	0.3	6.6	8.2	9.2	9.5	10.0	14.3	15.4	20.7	6.1
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°	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8	612.8
2.5°	615.6	606.3	588.7	568.2	552.4	536.8	524.6	511.7	507.1	504.8	504.6
5°	621.7	602.2	564.9	526.6	495.1	465.5	444.3	424.0	414.5	410.3	408.4
7.5°	632.0	600.8	540.7	482.1	436.8	399.7	370.3	348.3	337.3	332.7	330.9
10°	644.0	598.7	512.3	435.0	377.2	338.9	309.7	287.9	275.9	270.8	268.3
12.5°	658.0	595.1	479.6	387.4	326.3	287.9	252.6	225.8	212.0	206.2	203.4
15°	675.4	591.5	445.3	342.7	281.6	234.7	196.2	178.0	175.2	174.2	174.4
17.5°	692.5	585.9	407.9	298.5	234.5	183.3	163.7	162.6	163.2	163.2	163.2
20°	707.9	573.1	367.2	260.6	189.8	154.7	150.6	148.9	147.6	146.5	145.2
22.5°	719.9	555.9	328.1	223.0	155.0	141.7	135.3	129.7	125.0	122.0	120.4
25°	728.1	533.2	292.3	187.0	139.4	128.9	117.4	108.0	100.8	96.4	94.6
27.5°	734.2	508.6	260.4	156.5	128.6	114.0	98.9	87.8	80.3	76.5	74.9
30°	738.6	480.8	232.2	137.6	116.6	98.5	82.3	71.4	66.0	63.9	62.9
32.5°	742.6	449.8	205.6	128.6	105.4	84.1	69.0	60.6	57.3	54.8	53.9
35°	752.9	421.2	180.3	119.1	93.9	71.8	59.3	53.2	49.8	48.3	47.8
37.5°	777.2	400.0	156.0	109.5	82.3	62.1	51.9	47.6	44.5	42.9	42.5
40°	816.3	389.2	135.5	98.9	71.1	54.8	47.0	42.9	39.7	37.4	36.8
42.5°	873.9	390.8	121.2	88.5	62.1	48.8	42.5	37.6	34.0	32.0	31.5
45°	943.7	402.1	111.2	78.2	54.8	44.2	37.4	32.2	28.9	27.1	26.6
47.5°	1019.4	420.2	103.0	69.0	48.8	39.9	32.2	26.8	24.0	22.5	22.3
50°	1099.1	437.8	94.6	60.1	43.7	35.6	27.1	22.3	19.9	18.6	18.2
52.5°	1180.0	458.3	86.9	51.9	39.4	30.5	22.5	18.2	16.4	15.4	14.8
55°	1266.9	473.6	79.6	45.6	35.0	25.8	18.6	15.1	13.6	12.3	12.0
57.5°	1369.3	497.4	71.8	39.4	29.9	21.5	15.4	12.0	10.7	9.5	9.2
60°	1507.3	525.3	63.7	34.7	24.6	17.6	12.6	9.7	8.2	7.2	6.9
62.5°	1689.5	556.2	53.5	30.5	19.9	14.3	10.0	7.6	5.9	4.6	4.6
65°	1920.4	606.6	43.7	25.6	16.4	11.7	7.6	5.6	3.4	2.0	2.0
67.5°	2055.2	615.3	35.3	21.0	13.3	10.0	6.4	3.8	1.0	0.3	0.0
69°	2012.0	564.9	29.9	17.9	11.6	9.5	5.9	2.8	0.5	0.0	0.0
70°	1930.6	516.6	26.4	15.8	10.5	8.9	5.6	2.0	0.5	0.0	0.0
72.5°	1595.3	367.8	19.9	11.7	7.6	7.9	5.1	1.3	0.5	0.0	0.0
75°	1162.1	223.5	14.3	8.2	4.8	5.9	3.5	0.5	0.3	0.0	0.0
77.5°	646.5	105.4	8.9	4.6	3.1	3.5	1.8	0.0	0.0	0.0	0.0
80°	210.0	28.6	4.1	2.5	1.8	2.0	0.7	0.0	0.0	0.0	0.0
82.5°	38.8	8.2	2.3	1.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.5	3.4	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.0	0.3	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)