

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: P320105

Luminaire Tested: **GLEON-SA1A-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409 lumens
Efficiency: N/A
Efficacy: 100.3 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

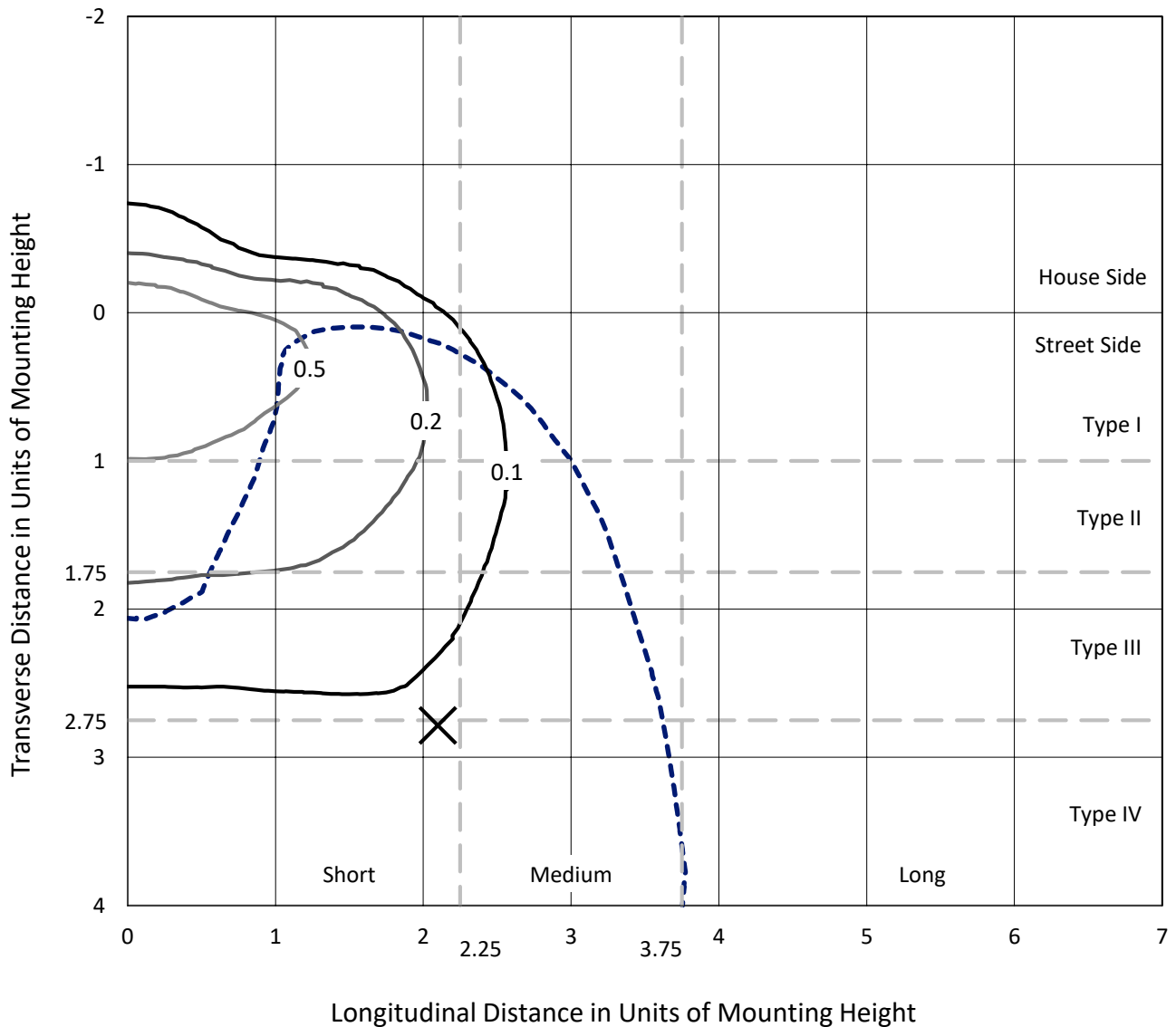
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

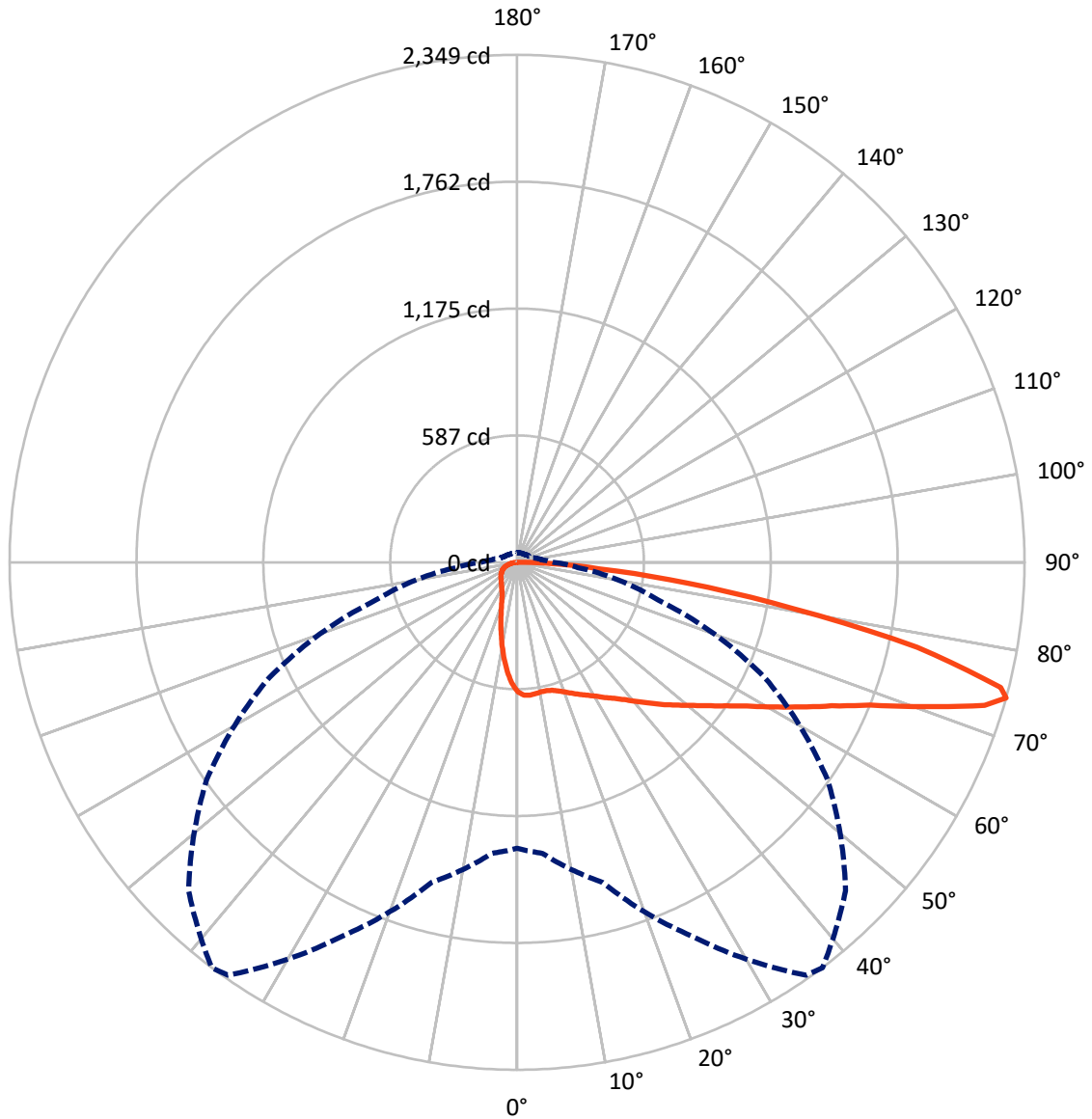
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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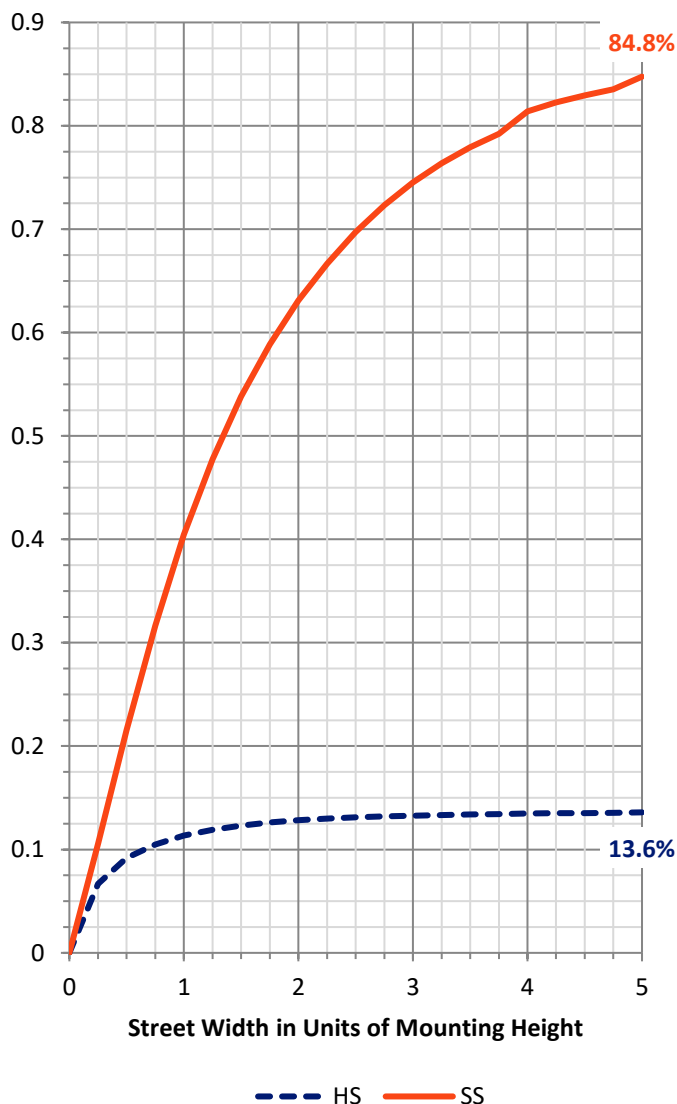
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.0	0.0	469.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	2939.9	0.0	2939.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	3409.0	0.0	3409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.6
10°-20°	135.6	4.0
20°-30°	208.9	6.1
30°-40°	303.8	8.9
40°-50°	447.1	13.1
50°-60°	627.9	18.4
60°-70°	794.7	23.3
70°-80°	699.8	20.5
80°-90°	138.4	4.1
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°	3409.0	100.0
0°-180°	3409.0	100.0

Coefficient of Utilization



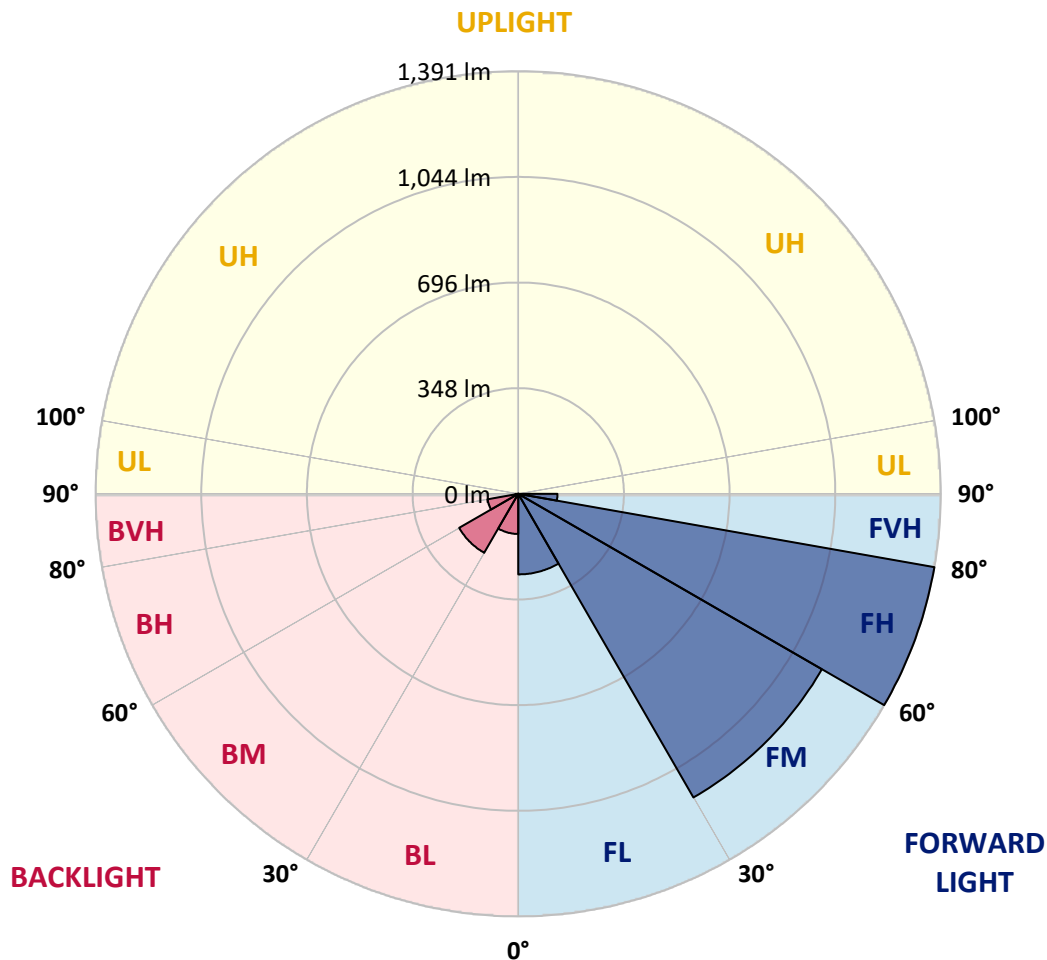
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.3	7.8			
FM (30°-60°)	1154.3	33.9			
FH (60°-80°)	1391.4	40.8			G1/1800
FVH (80°-90°)	129.0	3.8			G2/225
BL (0°-30°)	132.1	3.9	B1/500		
BM (30°-60°)	224.5	6.6	B1/1000		
BH (60°-80°)	103.1	3.0	B0/110		G0/110
BVH (80°-90°)	9.4	0.3			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°	37°	45°	55°	65°	75°	85°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	621.2	621.3	621.2	620.2	617.9	616.0	614.5	612.2	607.1	603.3	597.5
5°	627.1	626.4	625.9	624.1	620.5	618.3	615.3	611.0	602.7	595.0	585.6
7.5°	624.3	623.5	622.4	620.2	616.1	614.3	610.1	604.5	594.5	584.4	571.0
10°	615.8	615.5	615.1	614.6	611.1	609.7	605.8	599.8	590.0	577.7	562.0
12.5°	606.3	606.9	608.8	611.3	609.8	609.1	606.7	602.6	592.5	579.3	560.3
15°	600.3	602.0	607.1	613.7	615.1	614.8	614.2	611.6	600.9	586.2	564.1
17.5°	598.3	601.0	610.9	621.8	625.6	626.5	626.7	622.1	610.3	594.8	568.1
20°	602.0	605.5	619.9	634.9	641.0	641.5	640.4	632.5	619.1	602.1	570.3
22.5°	613.3	616.4	634.4	651.3	658.3	659.0	655.8	643.8	628.5	610.7	573.3
25°	635.0	638.8	656.9	673.8	677.4	677.5	672.8	657.9	640.8	622.9	579.8
27.5°	663.3	667.2	683.4	700.0	698.0	697.0	690.6	675.7	656.7	639.6	591.3
30°	694.9	699.1	714.5	726.3	721.7	719.5	714.4	695.2	678.9	662.4	608.9
32.5°	727.6	731.4	744.9	752.9	747.2	746.2	738.4	720.9	707.9	697.2	637.5
35°	761.1	763.8	777.1	781.6	773.9	773.7	771.5	755.4	747.3	752.3	679.1
37.5°	795.3	796.0	807.3	807.6	805.3	806.2	808.5	798.4	800.7	816.4	733.1
40°	825.8	827.7	835.9	838.4	842.4	845.7	857.1	850.5	868.2	896.1	800.3
42.5°	848.4	852.1	865.2	871.7	884.5	889.8	905.9	912.0	947.6	989.4	880.3
45°	867.5	873.2	894.3	907.6	929.3	938.6	961.6	982.2	1037.3	1090.6	964.5
47.5°	888.1	895.5	921.8	947.2	976.8	987.2	1029.1	1059.8	1133.0	1192.4	1043.9
50°	918.5	924.2	949.9	989.8	1026.7	1040.2	1098.2	1142.2	1230.2	1289.4	1112.7
52.5°	960.9	958.7	980.5	1036.6	1086.0	1102.6	1171.9	1229.9	1328.8	1377.2	1170.8
55°	1003.5	999.9	1015.2	1085.4	1155.2	1172.6	1253.1	1317.9	1422.6	1456.2	1215.4
57.5°	1051.0	1044.1	1057.0	1140.5	1234.0	1254.7	1344.0	1411.4	1514.8	1520.1	1243.7
60°	1099.8	1090.6	1105.0	1208.9	1334.0	1358.5	1450.4	1502.7	1601.8	1571.3	1252.8
62.5°	1142.6	1136.1	1158.3	1285.1	1446.8	1473.7	1554.8	1599.7	1687.5	1592.5	1219.9
65°	1179.9	1181.0	1219.4	1370.9	1572.5	1601.2	1674.7	1719.3	1755.0	1579.9	1142.9
67.5°	1224.5	1230.6	1296.2	1483.7	1730.7	1762.2	1849.0	1849.8	1792.7	1506.0	991.4
70°	1289.4	1302.1	1401.7	1640.3	1955.8	1999.0	2066.0	1926.4	1739.8	1305.4	780.1
72.5°	1347.1	1370.6	1514.0	1819.5	2230.1	2262.8	2192.9	1882.2	1518.4	978.3	486.0
74°	1323.7	1352.8	1534.4	1907.8	2333.3	2349.1	2150.1	1753.2	1266.0	677.5	282.4
75°	1273.2	1304.9	1504.6	1906.9	2320.2	2311.5	2046.6	1605.9	1042.7	462.1	187.9
77.5°	1027.5	1061.0	1267.8	1634.3	1902.5	1894.2	1572.1	1077.3	456.7	151.5	95.5
80°	597.4	623.0	787.0	1037.9	1282.8	1297.9	1033.9	533.0	179.6	85.1	64.7
82.5°	265.4	283.0	380.2	529.8	774.2	793.5	541.5	279.3	111.0	51.8	38.9
85°	174.1	187.2	230.8	252.3	368.7	381.9	265.0	217.5	73.3	28.5	28.6
87.5°	125.2	137.9	171.5	149.7	169.2	160.2	144.2	201.3	29.4	16.2	9.6
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°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	595.0	593.1	588.8	580.6	576.0	572.2	565.8	562.1	560.4	560.3	561.0
5°	580.2	575.8	564.6	550.9	540.0	530.0	517.7	510.2	504.9	501.8	502.7
7.5°	563.1	556.1	538.6	516.7	499.2	479.8	460.8	449.3	440.5	433.9	435.1
10°	551.3	541.7	516.1	484.7	455.5	427.4	401.1	385.3	372.9	363.2	364.0
12.5°	547.3	534.4	498.9	456.9	416.0	377.5	343.2	319.1	306.2	295.3	296.1
15°	547.9	530.5	484.5	431.9	380.4	332.0	290.4	262.1	244.7	237.2	237.3
17.5°	548.4	526.1	469.4	405.2	345.2	289.5	244.2	215.7	199.2	192.3	192.4
20°	546.9	518.9	450.7	374.4	308.5	250.5	206.7	182.4	169.9	164.5	164.5
22.5°	544.8	510.4	429.5	343.6	272.2	216.6	179.8	161.3	154.1	150.5	150.3
25°	545.8	504.0	407.9	311.9	238.8	189.6	161.9	149.6	144.8	142.5	142.4
27.5°	550.9	501.0	388.0	280.3	209.7	169.3	149.9	141.2	138.1	136.7	136.7
30°	560.3	501.0	367.2	253.4	185.4	154.3	140.6	134.7	132.6	131.6	131.6
32.5°	576.6	503.7	347.2	226.7	166.1	142.5	132.9	129.0	127.3	126.8	126.8
35°	604.7	513.1	327.6	201.5	150.5	132.9	125.6	123.3	122.1	122.0	122.4
37.5°	644.2	532.2	309.2	182.9	139.4	125.1	119.5	117.7	117.0	117.6	118.0
40°	694.0	558.1	292.5	166.1	131.0	118.9	113.8	112.6	112.3	113.1	113.8
42.5°	754.0	593.2	278.8	153.9	124.5	113.6	109.0	107.6	107.2	108.2	109.2
45°	819.0	630.9	269.2	144.9	119.5	109.6	104.8	103.3	102.6	103.0	104.1
47.5°	878.0	666.6	265.4	138.6	114.7	106.3	101.1	99.2	98.0	97.7	98.6
50°	927.9	693.1	267.2	134.7	110.8	102.6	97.5	95.3	93.5	92.5	93.1
52.5°	964.1	709.8	268.9	133.1	107.8	98.5	93.5	91.5	89.1	87.3	87.3
55°	990.4	713.7	265.1	131.7	105.6	94.0	89.1	87.2	84.8	82.7	82.5
57.5°	1000.8	702.8	251.3	129.8	104.0	89.8	84.4	83.0	80.9	78.5	78.4
60°	986.8	669.5	224.7	125.7	102.0	86.3	79.7	78.8	77.8	75.5	75.4
62.5°	930.9	596.2	190.2	117.4	97.9	82.6	75.4	75.9	76.0	74.5	74.2
65°	829.4	495.6	156.6	106.6	91.7	78.2	71.0	73.3	74.6	74.3	74.0
67.5°	681.9	385.7	132.7	95.2	83.7	72.0	66.2	68.8	69.9	70.7	70.5
70°	506.1	272.0	109.8	83.2	74.0	64.8	59.9	61.2	60.5	61.5	61.8
72.5°	282.2	163.2	89.5	71.2	63.9	56.4	53.0	52.7	51.2	51.2	51.2
74°	169.3	119.7	78.7	63.8	57.8	50.9	47.9	46.8	45.4	45.5	45.4
75°	136.2	102.9	72.2	58.8	53.4	47.7	44.7	43.2	42.1	42.1	42.0
77.5°	86.0	78.2	58.1	46.8	42.7	39.3	37.2	35.3	35.3	35.2	35.1
80°	65.0	62.2	45.3	35.4	32.8	30.1	28.8	28.0	28.0	28.3	28.2
82.5°	44.6	46.8	31.8	24.7	23.4	21.5	21.3	21.4	21.0	20.5	20.4
85°	32.5	35.2	21.5	15.6	14.3	13.1	14.0	14.5	13.9	12.8	12.4
87.5°	12.5	23.1	11.5	6.5	6.0	5.2	6.0	6.2	6.7	5.3	5.4
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)