

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: P647729

Luminaire Tested: **GALN-SA1A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

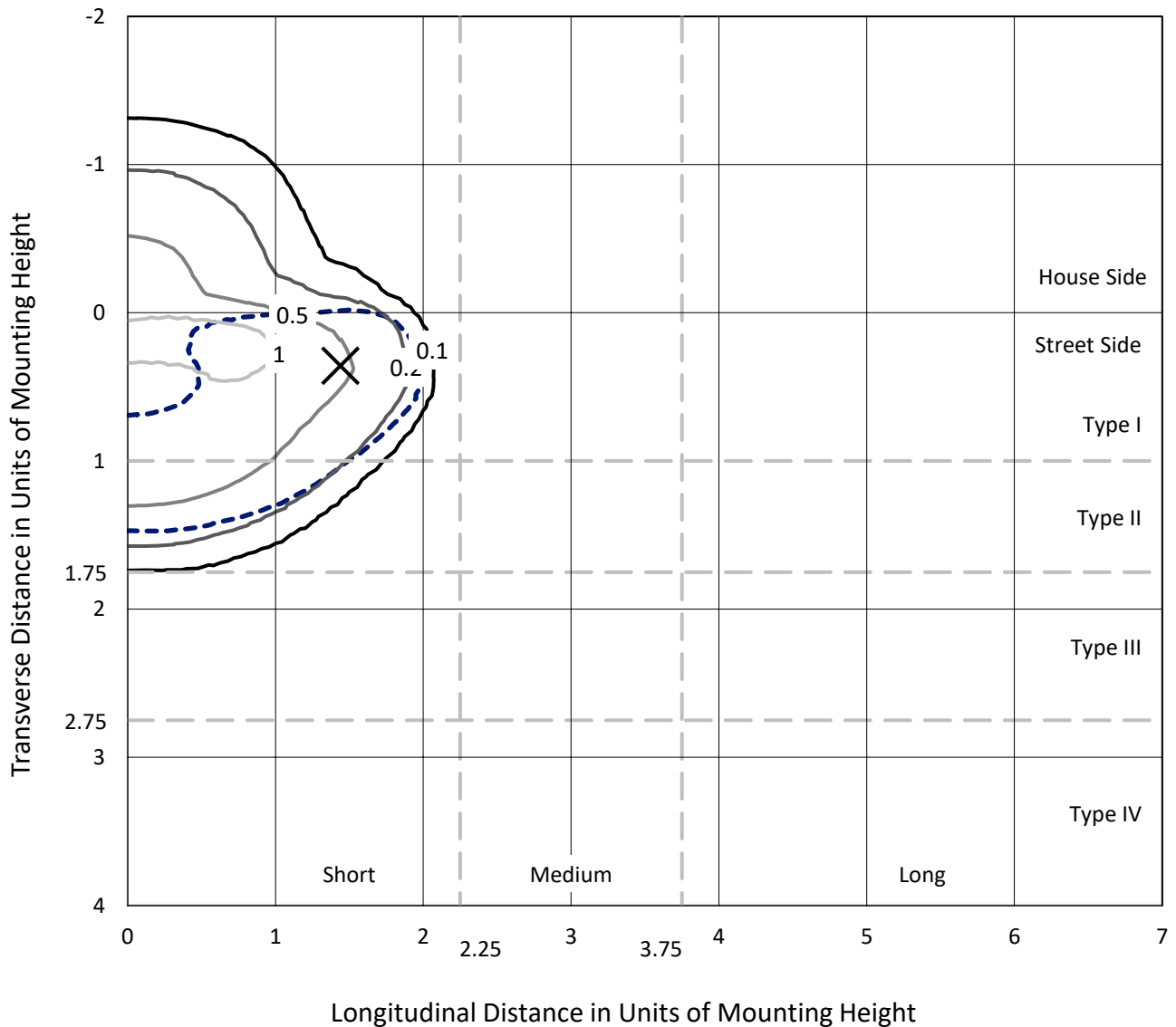
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

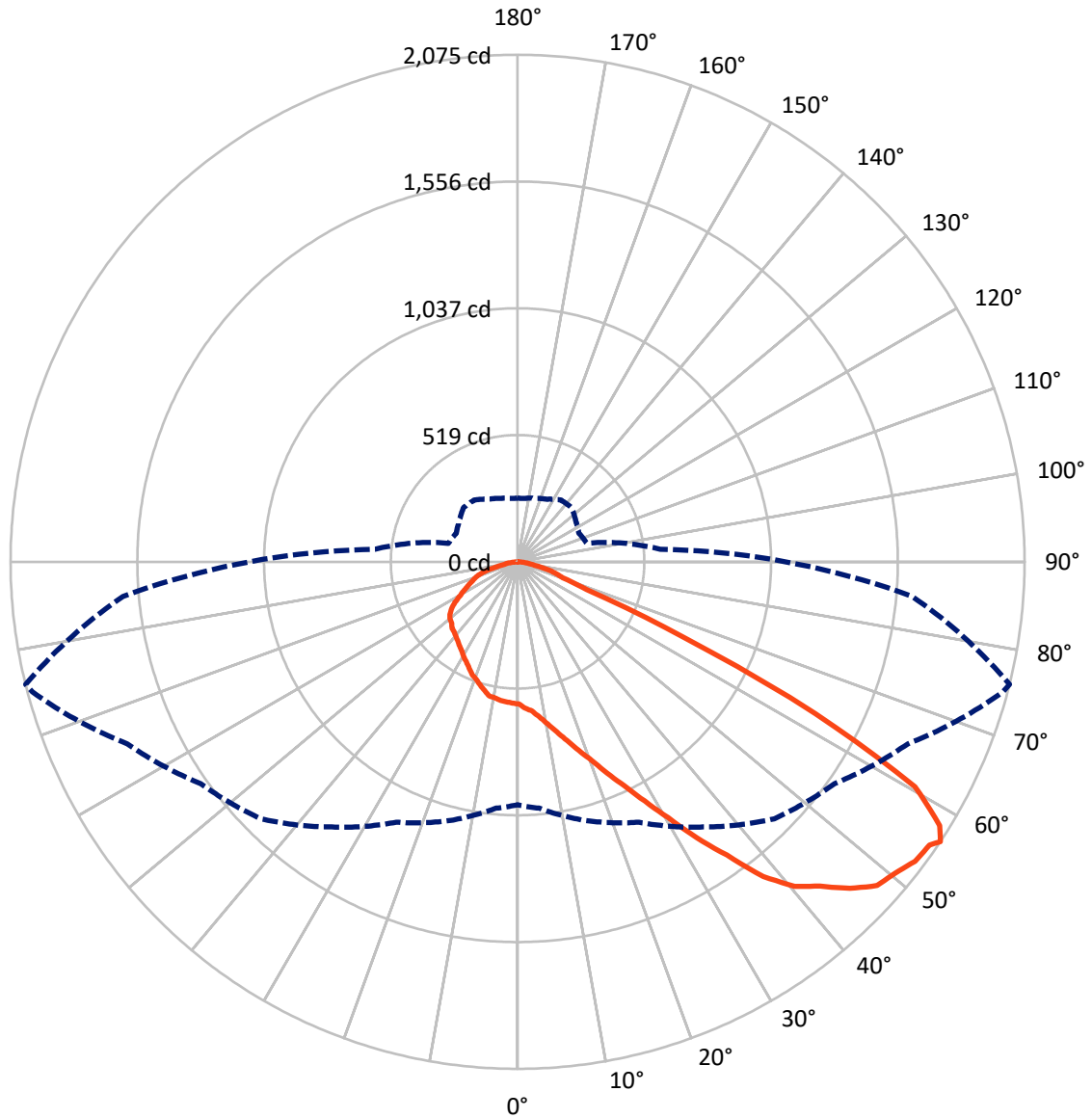
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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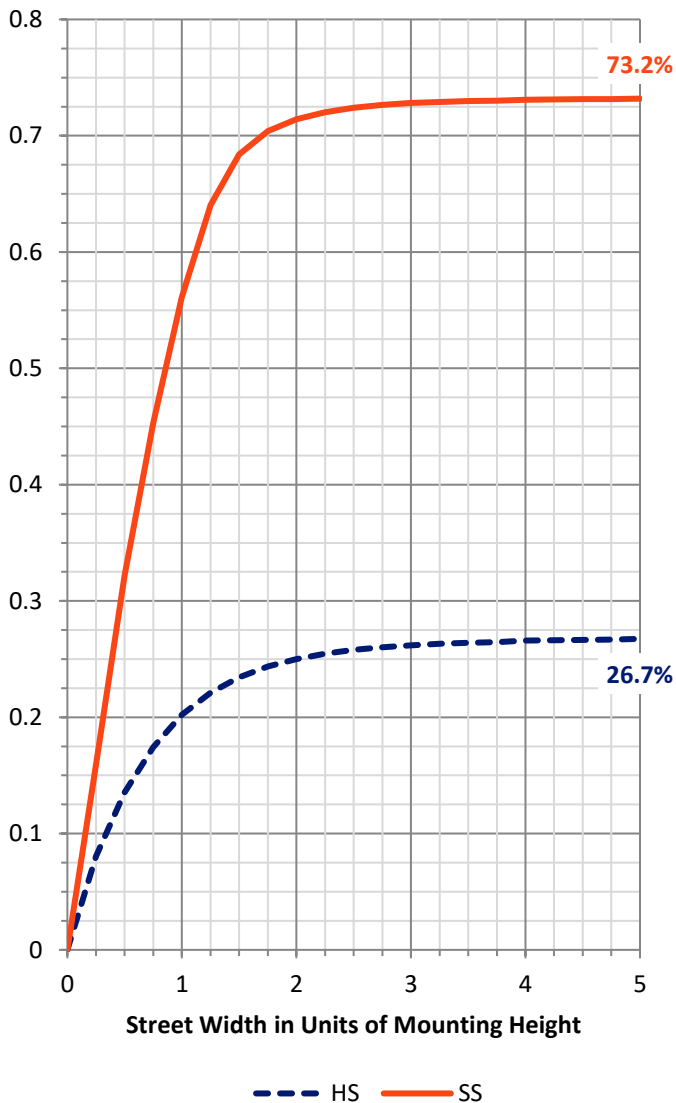
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.3	0.0	817.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2222.4	0.0	2222.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	3039.6	0.0	3039.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.9
10°-20°	181.2	6.0
20°-30°	316.9	10.4
30°-40°	496.1	16.3
40°-50°	721.7	23.7
50°-60°	793.2	26.1
60°-70°	354.1	11.6
70°-80°	102.3	3.4
80°-90°	16.6	0.5
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°	3039.6	100.0
0°-180°	3039.6	100.0

Coefficient of Utilization

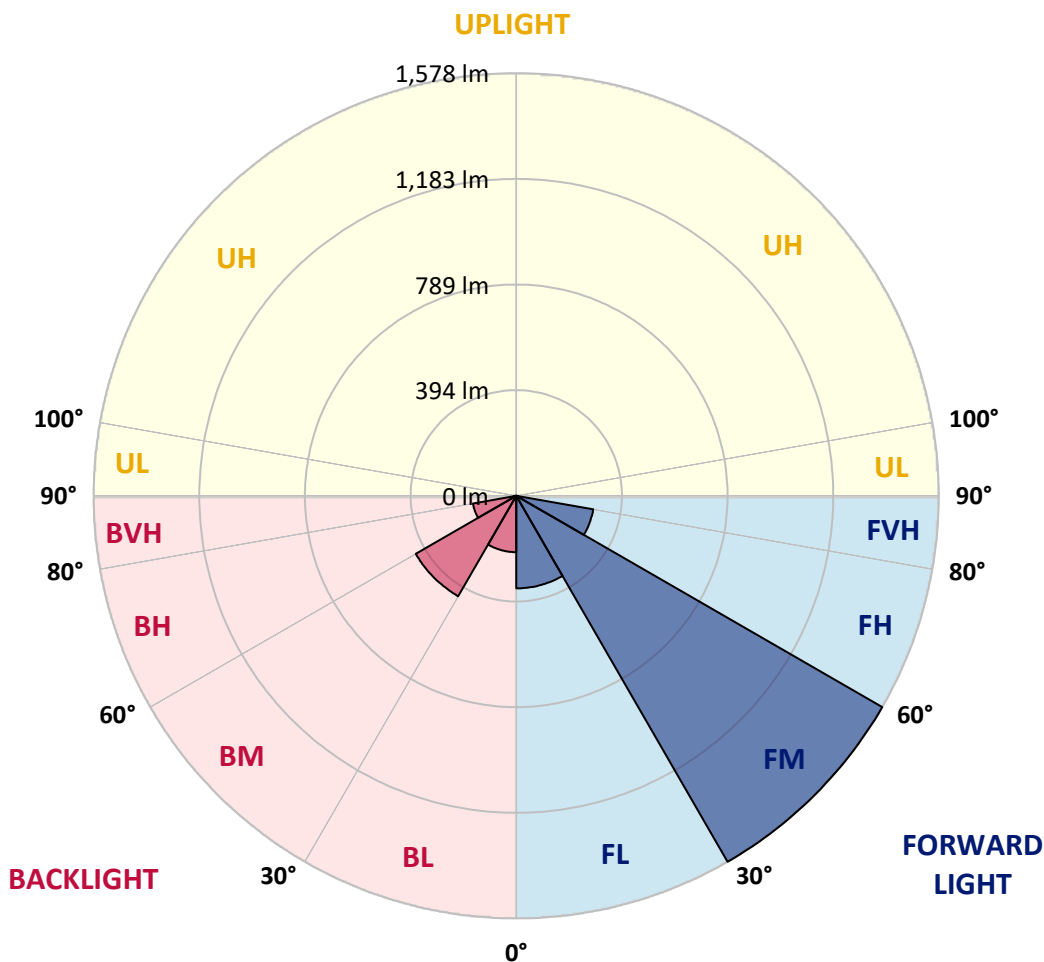


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.4	11.4			
FM (30°-60°)	1577.9	51.9			
FH (60°-80°)	291.9	9.6			G0/660
FVH (80°-90°)	7.1	0.2			G0/10
BL (0°-30°)	210.3	6.9	B1/500		
BM (30°-60°)	433.1	14.2	B1/1000		
BH (60°-80°)	164.4	5.4	B1/500		G1/500
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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6
2.5°	640.7	630.5	629.7	626.9	628.5	621.4	613.9	604.1	593.8	600.1	585.1
5°	685.6	671.8	677.4	667.9	669.1	659.6	644.3	632.8	620.2	612.7	602.0
7.5°	701.4	702.6	706.5	704.9	697.0	697.0	686.8	666.7	644.6	640.3	622.6
10°	722.6	723.0	718.7	719.9	730.9	725.8	716.8	708.1	679.7	674.6	643.1
12.5°	730.1	723.0	730.1	736.4	749.4	756.5	754.6	748.2	717.9	714.4	668.3
15°	731.3	727.0	732.9	747.1	758.5	788.5	803.4	799.1	758.9	759.3	696.6
17.5°	725.8	731.7	734.1	746.3	772.7	800.7	844.0	849.9	816.8	811.7	732.5
20°	733.3	729.0	732.1	743.1	778.2	821.9	878.7	917.7	871.2	867.6	769.5
22.5°	762.1	756.1	755.4	762.5	787.7	833.0	915.3	985.5	937.4	939.4	815.7
25°	784.5	787.7	784.9	784.5	800.3	849.6	963.8	1066.2	1027.2	1015.8	870.0
27.5°	823.2	830.6	825.1	832.6	829.0	874.4	998.5	1155.7	1124.2	1108.8	919.2
30°	876.7	880.6	875.6	875.6	864.9	909.1	1030.0	1249.0	1236.0	1215.2	977.2
32.5°	947.3	953.1	942.9	937.0	935.5	960.7	1086.7	1341.3	1363.4	1345.6	1054.0
35°	1040.6	1037.1	1024.9	1019.4	998.1	1039.8	1171.1	1447.3	1505.2	1473.7	1147.0
37.5°	1123.0	1117.5	1116.7	1085.9	1091.1	1125.3	1242.8	1527.6	1642.7	1633.7	1245.1
40°	1199.8	1205.0	1213.3	1195.9	1188.0	1225.9	1326.3	1589.1	1749.5	1745.9	1320.8
42.5°	1282.2	1277.5	1292.0	1277.5	1265.6	1319.2	1416.9	1631.7	1843.3	1814.1	1400.0
45°	1401.6	1386.6	1391.7	1392.9	1384.3	1403.9	1454.3	1662.4	1909.1	1905.9	1457.9
47.5°	1501.2	1501.6	1492.9	1486.3	1459.9	1479.6	1496.2	1681.7	1984.7	1979.6	1480.3
50°	1538.3	1533.2	1558.4	1573.0	1574.5	1534.4	1528.8	1692.4	2024.5	2002.1	1502.8
52.5°	1405.1	1409.9	1449.6	1536.3	1586.4	1590.7	1567.1	1714.5	2040.7	2036.0	1521.0
55°	1130.9	1153.8	1219.1	1319.2	1437.8	1568.3	1608.4	1737.3	2049.3	2045.4	1601.3
56°	994.2	1011.9	1097.0	1175.4	1324.4	1486.7	1582.4	1761.8	2056.1	2074.6	1620.3
57.5°	800.3	820.7	881.8	970.9	1146.6	1331.4	1510.7	1731.8	2030.1	2037.1	1634.0
60°	500.4	502.4	575.7	634.4	758.1	938.6	1153.0	1506.8	1878.7	1868.5	1467.7
62.5°	328.2	328.6	395.2	443.3	499.6	541.0	678.5	999.3	1386.2	1368.1	1045.0
65°	230.5	235.6	287.3	351.5	374.4	352.7	348.4	526.8	774.3	748.2	561.5
67.5°	168.7	169.0	214.8	283.7	316.8	268.3	217.9	257.3	306.5	305.8	260.0
70°	111.5	116.3	151.3	212.0	249.8	215.6	178.1	184.0	195.0	195.0	193.5
72.5°	65.0	69.4	92.6	134.4	140.3	134.8	141.1	157.6	164.7	164.3	162.3
75°	37.0	39.0	44.2	56.0	69.8	82.4	103.7	119.4	126.5	130.8	125.7
77.5°	21.7	22.9	26.0	31.9	36.3	44.6	56.4	67.4	76.8	75.6	76.4
80°	11.4	11.4	14.6	18.9	25.2	31.6	37.4	43.8	48.9	50.0	51.2
82.5°	6.7	7.1	9.5	13.8	18.1	22.5	28.7	33.1	37.8	38.2	39.0
85°	3.5	3.9	5.9	9.1	12.2	13.8	14.2	13.4	14.6	13.8	15.7
87.5°	1.2	1.2	2.0	1.6	1.6	2.0	2.3	2.3	3.1	3.1	3.1
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°	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6
2.5°	584.7	584.7	578.0	565.4	563.4	558.4	553.6	553.2	549.7	546.5	545.0
5°	595.8	583.6	573.7	562.3	548.9	542.6	535.5	527.6	524.5	527.6	527.2
7.5°	608.4	598.1	568.6	547.3	532.0	525.6	517.7	509.5	510.3	510.3	504.7
10°	620.6	606.8	559.5	532.4	509.9	505.1	500.8	503.9	507.9	508.7	505.1
12.5°	641.1	610.0	555.2	517.3	503.2	492.9	495.7	504.3	512.6	510.3	513.0
15°	656.5	612.7	535.5	502.0	484.3	489.0	498.8	504.7	518.6	516.9	519.8
17.5°	671.4	614.3	516.2	481.5	474.0	487.0	494.5	511.5	515.8	525.2	528.8
20°	702.2	617.5	496.5	468.9	466.5	481.5	494.5	502.4	511.8	520.1	520.1
22.5°	717.9	615.9	483.5	452.3	459.9	469.3	481.1	494.5	494.5	502.4	502.8
25°	737.7	609.6	463.0	444.4	450.0	459.1	472.5	467.7	472.9	472.9	479.1
27.5°	760.1	596.2	445.3	430.3	441.3	451.2	453.1	450.0	444.0	443.3	440.9
30°	778.2	579.7	432.2	425.6	434.6	440.1	433.9	427.1	416.9	416.1	410.6
32.5°	803.0	559.1	416.1	413.7	424.0	424.4	422.4	412.2	397.2	390.9	384.6
35°	844.8	547.3	403.9	407.4	410.6	409.4	405.8	394.8	379.8	377.1	374.7
37.5°	875.6	538.6	391.3	395.6	398.4	400.0	389.3	377.1	377.5	372.0	370.4
40°	910.2	533.1	381.0	383.0	383.4	388.5	375.5	369.6	372.4	368.8	371.1
42.5°	954.7	534.7	370.4	368.8	376.3	374.4	368.0	360.2	361.7	351.1	352.7
45°	978.4	545.4	364.1	357.0	365.3	364.9	356.6	349.1	339.7	319.2	319.9
47.5°	994.2	548.1	349.1	344.4	353.1	358.1	348.7	331.4	318.0	303.4	299.9
50°	1010.3	553.2	342.0	332.1	335.8	348.0	336.1	319.5	306.5	293.5	295.5
52.5°	1024.5	563.1	328.2	313.7	319.9	333.3	327.1	306.9	292.8	282.1	279.0
55°	1087.5	585.1	305.0	286.0	301.1	318.0	314.5	290.0	274.7	269.1	268.3
56°	1097.4	585.9	292.8	276.6	290.4	312.9	308.5	282.5	268.7	260.0	260.4
57.5°	1098.9	576.4	275.5	267.9	279.8	305.4	299.9	276.6	257.7	249.8	247.4
60°	966.9	450.0	253.8	249.0	262.9	282.5	280.5	260.4	239.2	230.1	234.4
62.5°	659.2	329.8	236.8	236.0	243.1	262.5	257.3	239.2	221.4	215.6	212.7
65°	383.7	250.2	220.3	217.1	223.0	233.3	236.8	217.9	199.4	195.4	194.3
67.5°	226.6	206.9	199.0	193.9	191.9	198.2	200.9	190.0	171.4	165.9	170.6
70°	189.6	184.0	184.4	175.7	171.0	166.7	164.3	154.5	139.1	132.0	130.1
72.5°	163.5	161.1	159.6	151.7	147.4	137.5	127.2	117.4	106.0	100.1	100.5
75°	124.9	124.1	124.9	121.0	113.5	105.6	96.2	83.5	74.9	67.4	69.0
77.5°	74.5	76.8	78.0	76.4	73.3	66.2	60.3	52.0	43.8	37.8	37.0
80°	51.2	53.2	55.2	53.2	50.0	44.9	38.6	32.3	26.4	23.3	22.5
82.5°	39.0	41.0	42.1	40.2	36.3	30.8	26.4	22.1	17.3	14.2	13.4
85°	14.2	16.1	15.7	18.9	20.5	19.7	16.9	13.0	9.9	7.1	6.7
87.5°	3.9	3.5	3.9	3.9	3.9	3.5	3.1	3.1	3.1	2.0	1.6
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)