

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: P526203

Luminaire Tested: **GALN-SA1A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1985 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

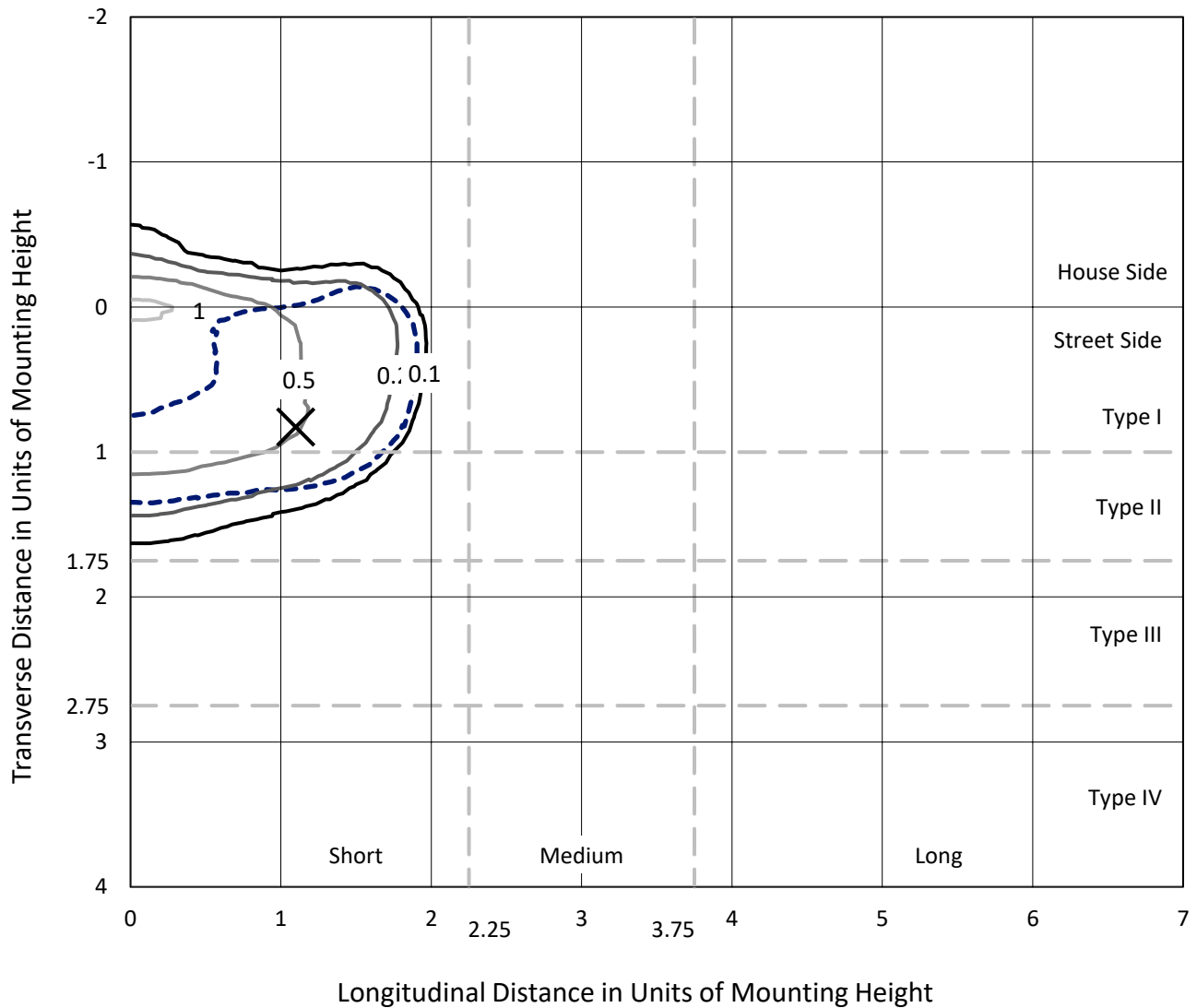
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

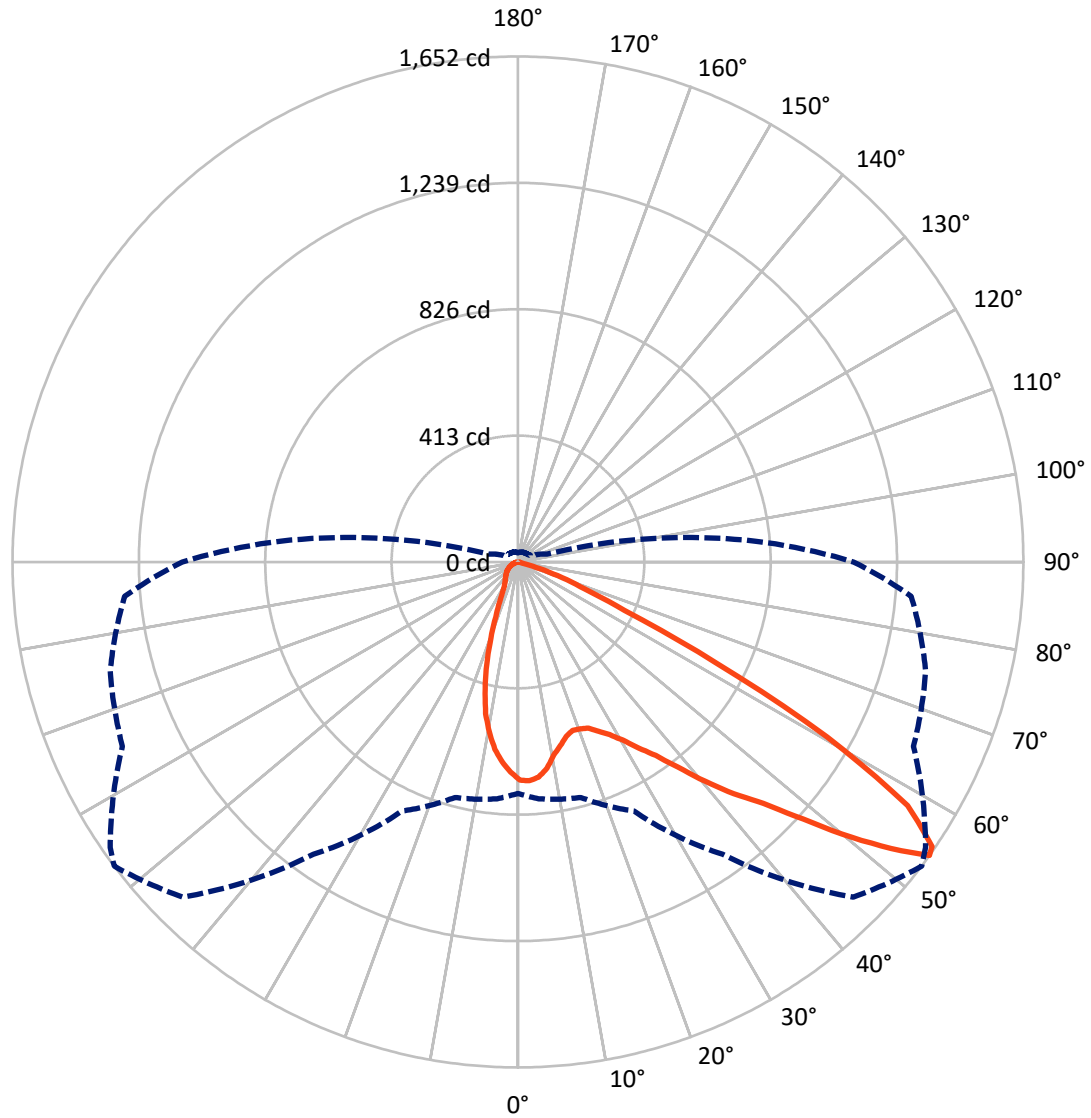
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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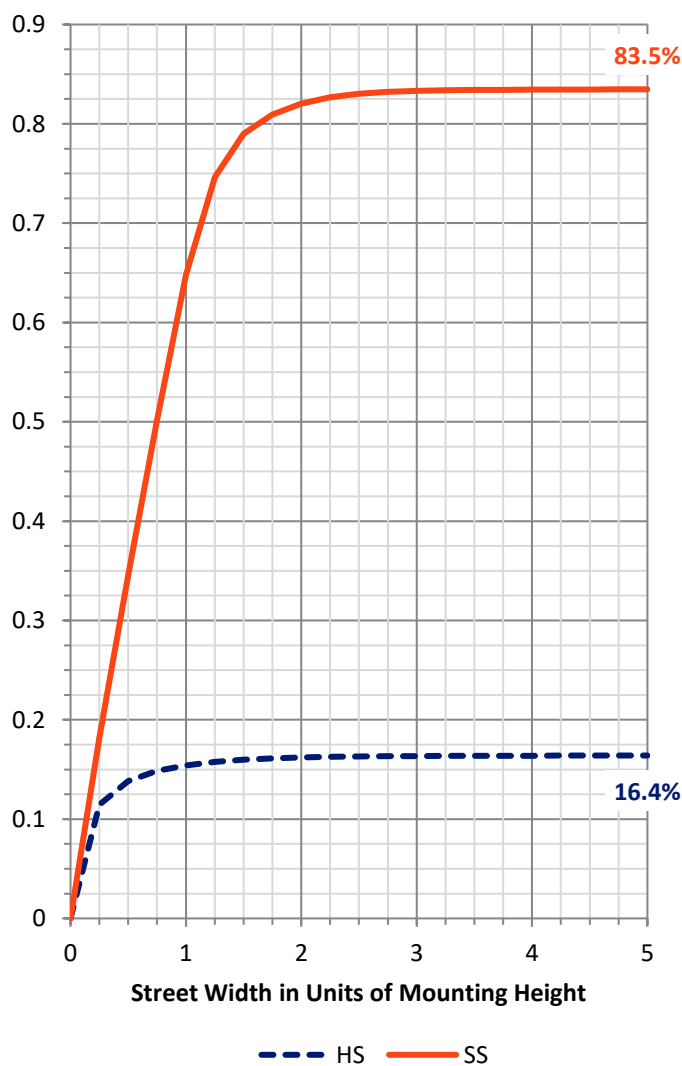
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.4	0.0	328.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	1656.6	0.0	1656.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	1985.0	0.0	1985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.1
10°-20°	140.2	7.1
20°-30°	199.3	10.0
30°-40°	307.6	15.5
40°-50°	482.3	24.3
50°-60°	560.3	28.2
60°-70°	211.7	10.7
70°-80°	20.1	1.0
80°-90°	2.3	0.1
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°	1985.0	100.0
0°-180°	1985.0	100.0

Coefficient of Utilization

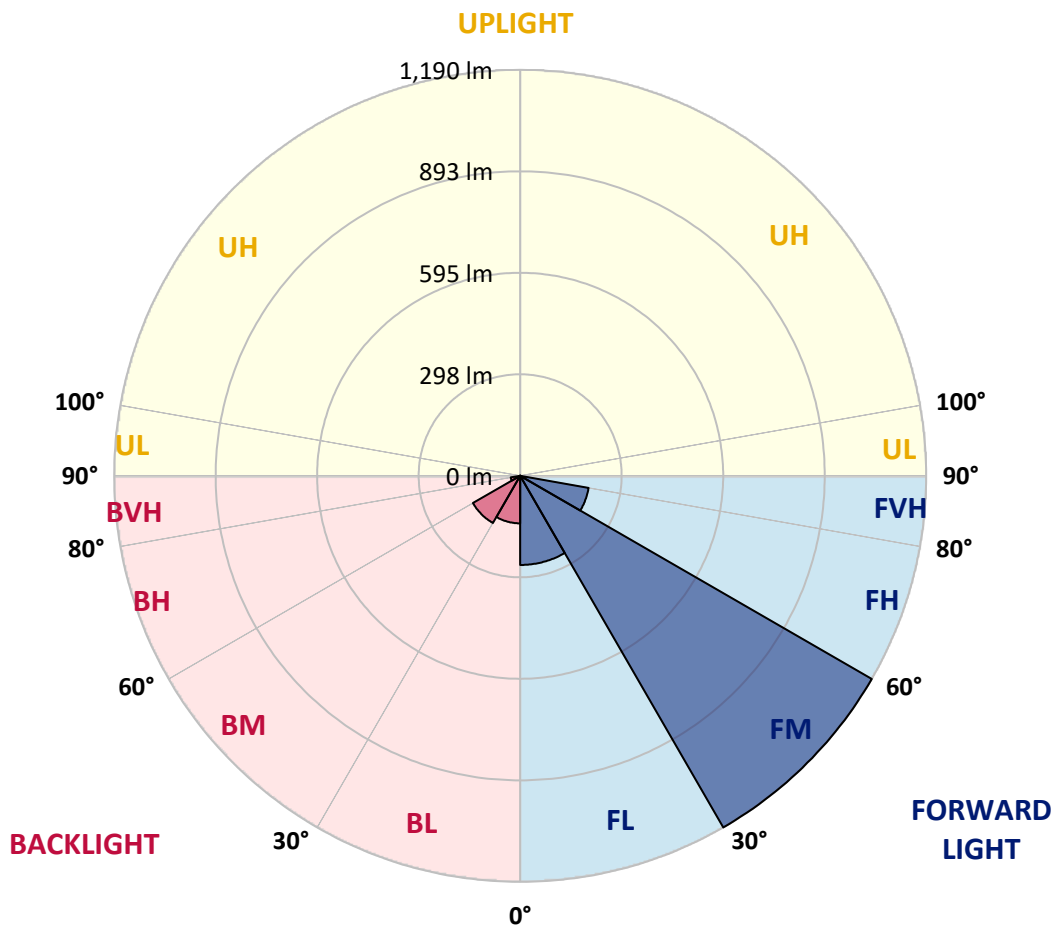


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.4	13.2			
FM (30°-60°)	1190.3	60.0			
FH (60°-80°)	203.7	10.3			G0/660
FVH (80°-90°)	1.2	0.1			G0/10
BL (0°-30°)	139.4	7.0	B1/500		
BM (30°-60°)	159.8	8.1	B0/220		
BH (60°-80°)	28.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
2.5°	709.3	703.0	709.3	710.0	714.5	718.5	715.9	721.9	718.5	714.8	713.7
5°	652.0	660.5	660.8	674.1	671.2	695.6	706.3	703.4	721.5	720.4	717.8
7.5°	600.6	597.2	601.7	617.2	636.8	664.9	680.4	680.1	706.0	724.4	722.6
10°	552.9	552.5	561.7	573.9	590.6	620.2	641.6	652.3	692.6	720.7	724.8
12.5°	520.7	519.2	529.2	539.2	565.4	588.4	615.7	620.9	667.1	707.8	714.5
15°	499.6	502.9	503.7	522.9	539.5	569.9	591.3	602.0	655.3	697.4	723.0
17.5°	495.9	500.3	500.7	516.6	534.4	559.9	578.7	593.2	645.3	702.6	723.3
20°	503.3	500.7	502.9	512.9	530.3	554.7	582.1	586.9	642.0	705.2	727.4
22.5°	524.4	523.6	518.1	526.2	538.4	563.9	589.8	597.2	651.6	718.5	730.7
25°	547.7	551.7	546.6	545.5	554.0	579.1	613.5	623.1	683.8	742.6	741.1
27.5°	591.3	587.2	587.2	582.1	579.8	592.1	639.0	654.9	719.6	773.6	752.9
30°	633.1	637.5	634.2	636.1	621.3	620.2	675.3	694.9	783.2	821.0	778.1
32.5°	699.3	693.4	698.9	694.1	674.5	654.5	724.4	744.8	860.2	875.3	815.8
35°	754.4	751.8	775.5	774.7	742.9	723.3	776.6	806.9	913.8	940.4	860.2
37.5°	832.8	828.0	855.0	867.9	839.5	810.2	851.3	886.4	963.7	992.5	905.6
40°	913.4	925.6	961.9	983.3	953.0	914.2	942.6	953.3	997.0	1026.6	936.7
42.5°	1015.5	1033.2	1070.2	1088.7	1086.1	1044.0	1035.4	1035.1	1021.0	1017.0	959.6
45°	1113.5	1106.8	1163.8	1204.1	1236.6	1224.4	1124.9	1113.8	1059.1	1031.4	965.6
47.5°	1156.4	1154.2	1193.0	1264.7	1375.7	1390.8	1255.1	1212.2	1123.5	1092.0	997.7
50°	1100.9	1112.4	1150.8	1230.3	1400.4	1516.2	1414.9	1357.2	1198.5	1166.0	1073.9
52.5°	919.7	927.5	964.1	1065.0	1316.1	1590.1	1568.0	1534.7	1336.5	1282.5	1206.7
54°	756.2	777.0	796.9	898.2	1166.0	1549.1	1651.9	1626.4	1426.3	1379.4	1290.2
55°	658.6	670.8	685.2	786.2	1062.1	1479.6	1642.3	1644.5	1486.6	1409.7	1346.4
57.5°	481.1	489.6	474.8	519.6	729.2	1201.5	1502.1	1562.0	1568.0	1455.2	1380.8
60°	367.6	371.3	354.6	361.7	453.4	824.7	1161.9	1234.0	1414.5	1271.7	1169.7
62.5°	285.1	285.9	285.5	297.7	312.5	485.2	726.7	790.6	975.2	903.1	794.3
65°	210.0	206.7	212.6	249.6	266.6	305.1	382.7	429.3	529.9	447.5	319.9
67.5°	136.1	137.2	143.1	185.6	228.5	234.1	235.6	231.9	232.2	128.0	80.2
70°	81.7	83.6	81.7	105.0	163.5	167.9	153.5	149.8	116.9	30.3	30.0
72.5°	48.4	45.9	41.0	45.1	68.0	81.4	73.2	72.9	45.9	17.8	17.8
75°	20.3	18.5	15.2	13.7	18.1	17.4	17.4	15.5	12.2	11.8	11.1
77.5°	4.1	4.1	3.0	3.3	4.4	5.2	6.3	6.3	7.4	7.4	7.0
80°	0.0	0.4	1.1	2.2	3.3	4.8	5.5	5.5	6.3	6.3	5.2
82.5°	0.0	0.4	1.1	2.2	3.0	4.4	5.5	5.5	6.3	6.7	5.5
85°	0.0	0.4	1.1	1.8	3.0	3.7	3.7	3.3	2.6	2.2	1.5
87.5°	0.0	0.0	0.4	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.7
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°	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
2.5°	716.3	715.9	707.1	692.6	689.3	677.1	675.6	668.2	672.3	658.6	657.1
5°	710.4	706.0	695.2	686.0	659.0	639.8	624.6	606.1	595.4	597.2	590.2
7.5°	718.9	707.4	688.6	656.4	623.5	589.8	571.7	534.0	520.3	500.0	497.0
10°	710.0	701.5	672.3	619.0	573.6	525.1	482.6	440.8	409.0	395.3	392.4
12.5°	709.3	694.5	645.7	586.5	520.7	451.2	389.4	337.3	305.8	288.1	284.0
15°	697.8	680.1	615.7	536.2	445.2	358.7	291.4	241.1	217.1	206.7	209.7
17.5°	698.9	672.3	585.8	483.0	370.9	263.3	199.0	173.1	166.8	169.4	169.4
20°	697.8	654.9	549.5	421.6	284.0	182.7	146.1	136.8	140.9	149.0	147.2
22.5°	691.9	646.8	516.2	356.9	208.9	135.3	117.2	117.6	123.9	133.9	136.1
25°	696.3	628.7	474.1	291.4	152.4	108.0	101.7	104.3	110.9	118.3	119.8
27.5°	693.0	615.7	430.1	226.3	111.3	92.8	92.5	95.4	98.4	103.9	103.9
30°	696.7	603.9	386.8	168.3	91.7	85.1	83.6	85.8	88.8	89.9	89.5
32.5°	710.4	595.0	336.9	125.7	81.0	77.7	77.7	77.7	77.3	78.8	79.1
35°	740.3	596.5	292.9	97.3	74.0	71.4	70.3	68.8	68.0	68.8	69.2
37.5°	772.9	595.8	247.4	82.8	68.8	66.6	64.0	61.8	61.4	62.1	61.0
40°	787.3	602.8	205.2	74.3	64.0	61.4	57.3	55.5	55.8	56.6	55.8
42.5°	806.9	605.0	177.9	67.7	59.5	55.5	52.9	50.7	50.3	51.4	51.0
45°	806.5	592.4	149.0	64.0	55.5	51.0	47.7	45.9	45.9	46.6	47.0
47.5°	830.2	590.6	128.0	60.6	52.5	48.1	44.0	42.5	42.2	42.2	41.4
50°	885.3	616.5	111.7	56.9	48.8	44.7	41.4	39.6	38.1	37.4	37.0
52.5°	992.9	697.1	99.1	52.5	44.7	41.4	38.5	37.0	35.1	33.3	32.9
54°	1097.2	780.3	98.4	48.8	41.4	39.2	36.6	35.9	33.7	31.1	30.3
55°	1144.2	828.7	101.0	45.9	39.2	37.7	35.5	34.8	32.5	29.6	29.2
57.5°	1183.0	847.6	99.5	38.1	35.5	35.1	33.3	32.2	29.6	25.5	24.8
60°	952.2	640.9	71.4	33.7	32.5	31.8	30.3	29.6	26.3	21.8	21.4
62.5°	601.7	368.7	45.5	29.6	28.5	27.4	25.5	24.8	21.8	17.4	16.3
65°	256.3	152.7	30.7	26.3	24.4	22.6	21.1	20.0	17.4	12.9	12.6
67.5°	66.6	54.4	25.5	22.9	20.3	17.8	16.6	14.8	11.8	8.9	8.5
70°	30.0	27.4	21.4	19.2	16.3	13.7	12.2	10.4	7.8	5.9	5.5
72.5°	17.8	17.4	16.3	14.4	12.2	10.4	8.9	7.0	5.2	3.3	3.3
75°	11.1	10.7	11.1	10.0	8.5	7.8	6.7	4.8	3.0	1.5	1.5
77.5°	6.7	6.7	6.7	6.3	5.9	5.9	4.8	3.0	1.5	0.4	0.4
80°	5.2	5.2	5.5	5.2	5.2	5.2	4.1	2.2	0.7	0.0	0.0
82.5°	5.2	5.5	6.3	5.9	5.2	4.4	3.7	2.2	0.7	0.0	0.0
85°	1.5	1.1	1.8	2.6	3.7	3.3	2.6	1.8	0.7	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	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)