

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: P450371

Luminaire Tested: **GALN-SA1A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3670 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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



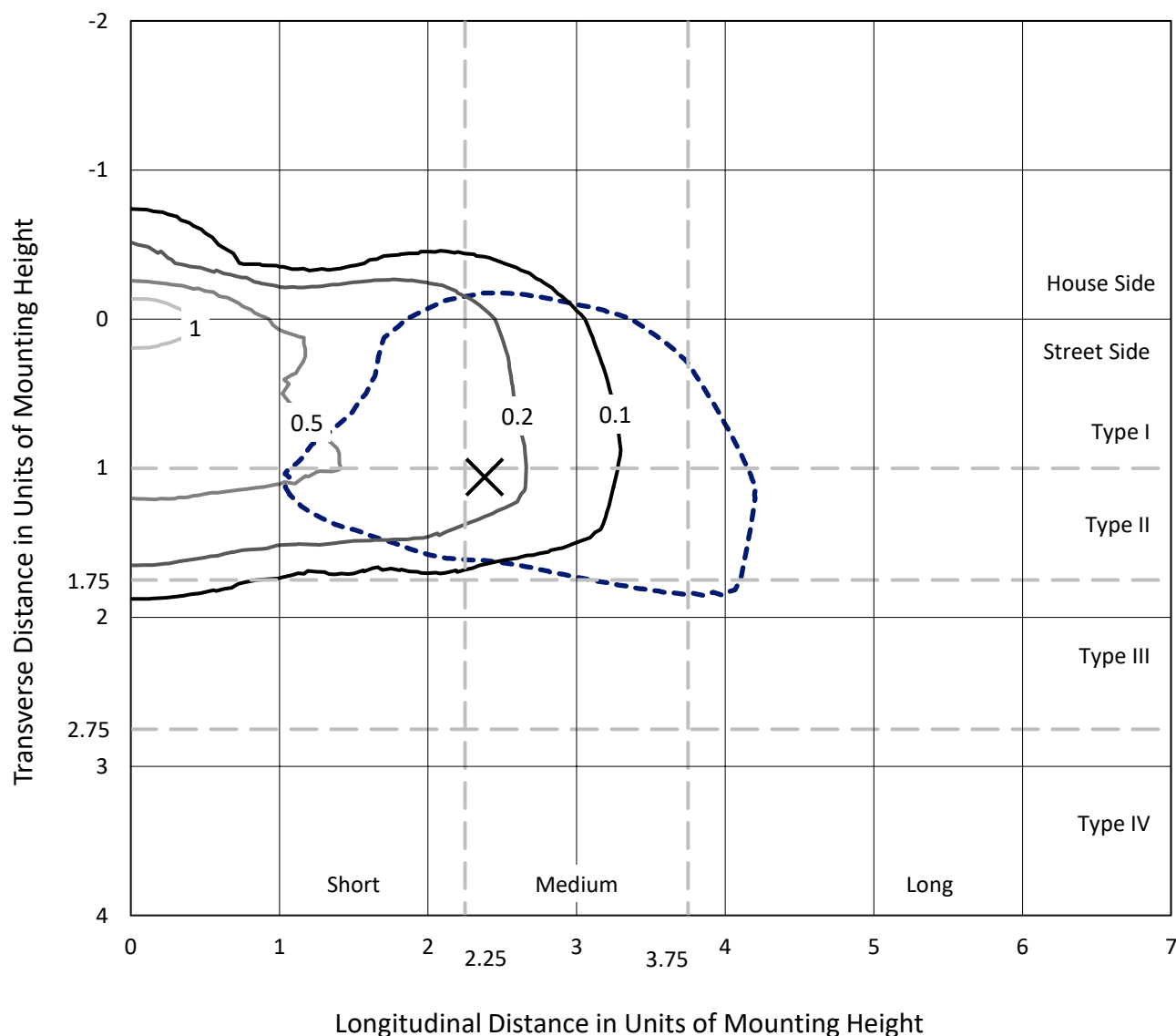
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

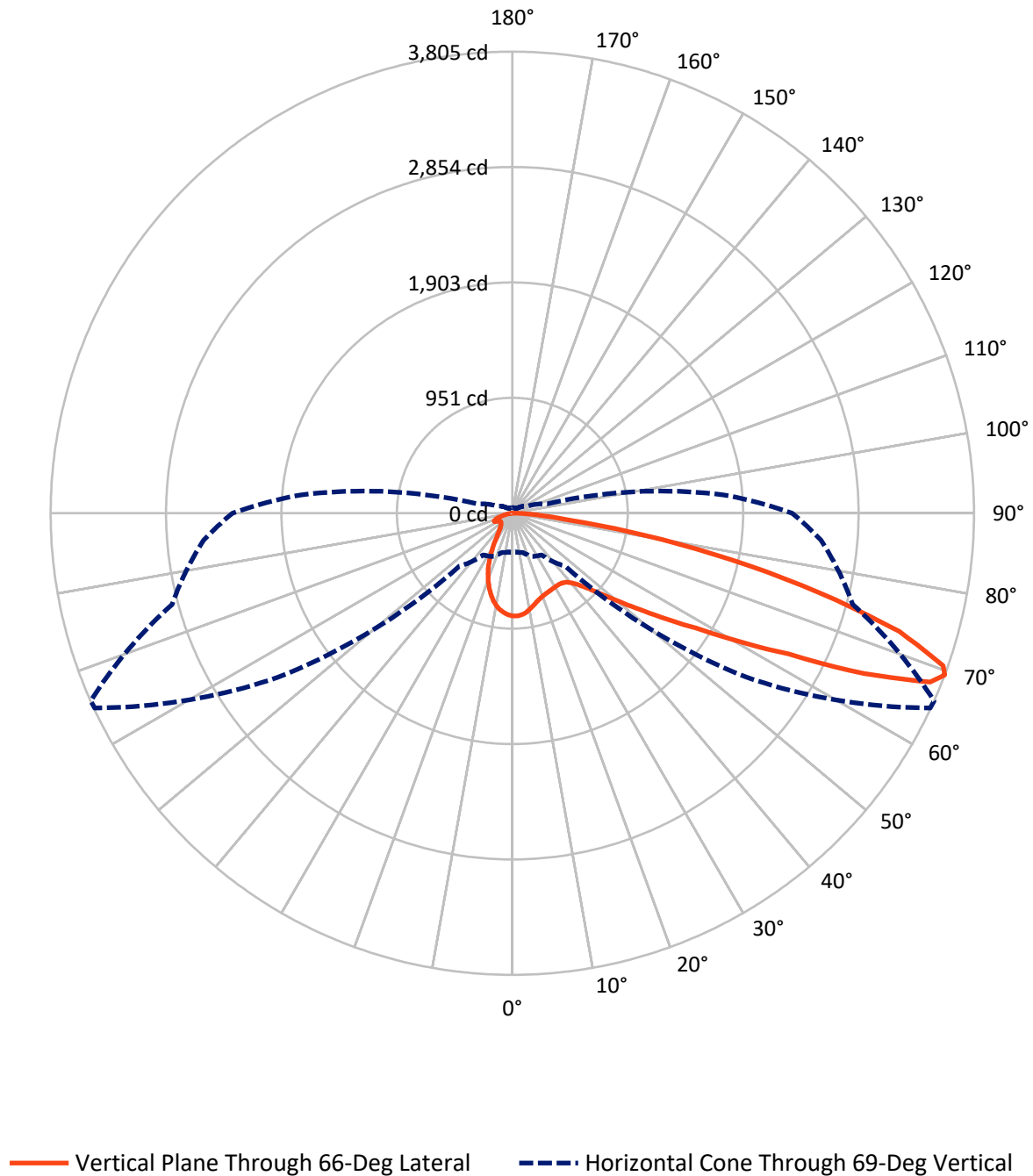


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.2	0.0	690.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2979.8	0.0	2979.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	3670.0	0.0	3670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	2.0
10°-20°	174.6	4.8
20°-30°	237.6	6.5
30°-40°	319.3	8.7
40°-50°	476.8	13.0
50°-60°	758.5	20.7
60°-70°	932.9	25.4
70°-80°	607.0	16.5
80°-90°	89.6	2.4
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°	3670.0	100.0
0°-180°	3670.0	100.0

Coefficient of Utilization



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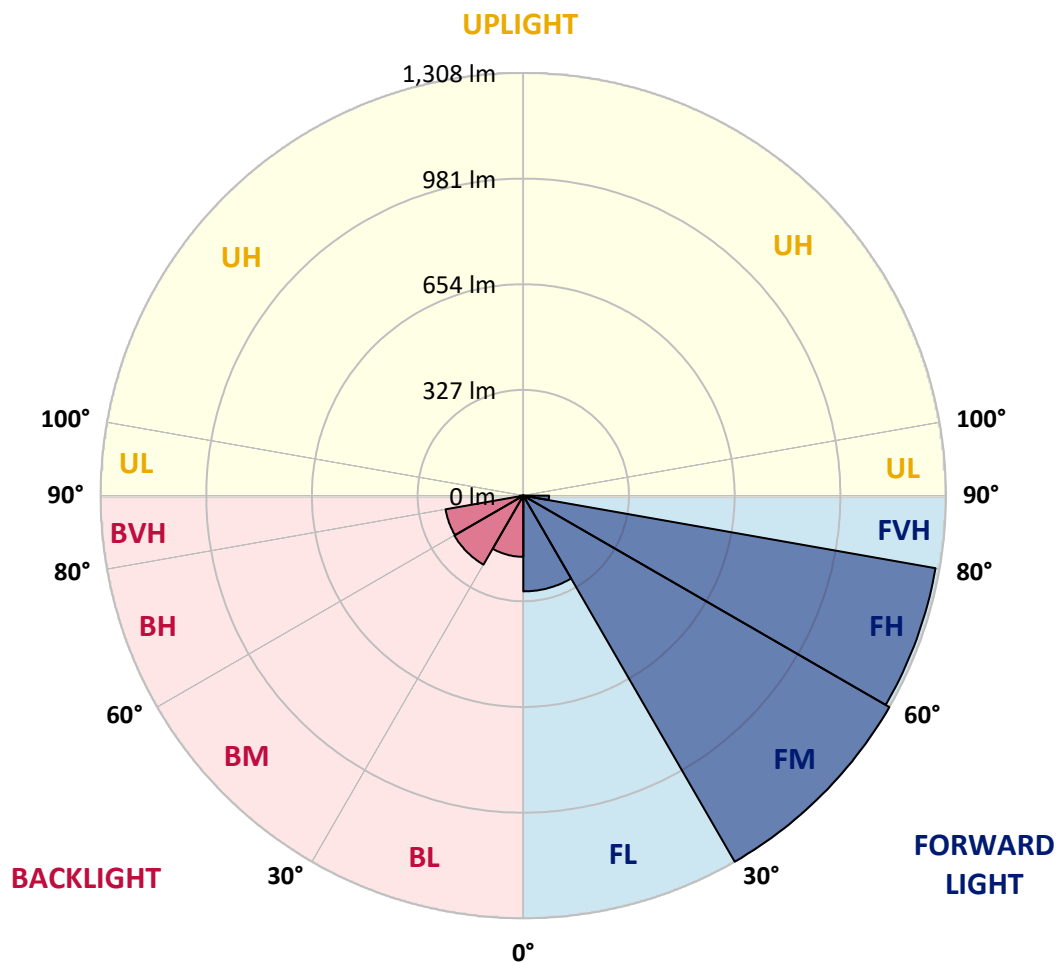
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	296.3	8.1			
FM	(30°-60°)	1308.2	35.6			
FH	(60°-80°)	1295.5	35.3			G1/1800
FVH	(80°-90°)	79.7	2.2			G1/100
BL	(0°-30°)	189.5	5.2	B1/500		
BM	(30°-60°)	246.4	6.7	B1/1000		
BH	(60°-80°)	244.4	6.7	B1/500		G1/500
BVH	(80°-90°)	9.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5
2.5°	817.8	821.1	824.7	828.8	836.5	840.8	843.8	847.3	847.7	849.5	848.1
5°	757.5	761.3	766.8	774.5	786.1	804.2	822.9	838.2	840.0	848.5	851.0
7.5°	707.1	709.3	713.8	726.2	742.6	762.8	790.0	820.9	825.4	845.7	852.8
10°	666.0	668.2	673.5	686.3	702.6	727.8	757.7	798.3	802.0	836.9	853.2
12.5°	635.3	637.4	643.0	655.6	674.3	697.9	730.8	773.9	779.2	825.4	849.3
15°	612.0	615.8	620.5	630.9	650.6	673.3	705.2	751.6	755.8	813.2	846.7
17.5°	602.0	603.8	607.1	616.6	631.1	653.4	685.5	734.1	739.2	804.6	846.1
20°	602.4	604.2	604.8	610.1	620.5	639.8	671.5	720.3	726.4	797.1	847.1
22.5°	616.2	616.4	614.2	612.4	616.4	632.5	661.5	709.9	717.0	793.8	847.9
25°	637.6	641.2	638.0	629.4	621.9	629.6	657.7	704.2	710.9	789.2	846.9
27.5°	672.1	672.7	670.1	658.5	639.0	633.3	656.1	700.0	705.6	785.7	841.8
30°	718.4	716.6	714.2	701.4	670.7	647.3	659.5	696.1	702.0	780.6	835.7
32.5°	765.4	771.1	768.9	753.8	714.0	674.5	670.7	695.7	700.6	776.8	829.0
35°	815.2	817.8	828.4	820.7	779.8	718.7	691.6	702.0	705.8	777.0	824.3
37.5°	854.2	861.3	886.1	892.8	854.4	777.0	725.6	719.9	721.5	786.9	826.2
40°	901.4	913.6	945.5	972.9	947.7	852.8	783.3	753.0	755.0	810.9	838.2
42.5°	961.1	969.7	1012.5	1049.7	1045.7	953.0	853.2	807.3	808.3	858.7	871.7
45°	1031.0	1043.2	1091.4	1147.3	1156.8	1066.4	954.2	889.4	888.8	932.9	934.3
47.5°	1120.5	1128.0	1175.7	1236.7	1275.3	1208.9	1076.8	1007.3	1000.7	1041.0	1029.4
50°	1202.8	1214.6	1250.7	1317.4	1413.5	1375.7	1237.9	1160.1	1144.8	1182.4	1162.9
52.5°	1237.3	1249.7	1280.2	1362.9	1532.0	1591.6	1442.6	1342.4	1317.0	1345.8	1338.7
55°	1177.4	1193.4	1221.9	1322.5	1584.0	1840.5	1718.6	1553.1	1534.7	1522.3	1524.3
57.5°	1016.2	1031.4	1069.8	1180.8	1521.9	2021.2	2112.7	1824.1	1784.4	1727.3	1737.1
60°	773.5	783.1	803.0	926.0	1337.5	2068.2	2560.2	2166.5	2141.3	1931.6	1938.5
62.5°	549.4	560.1	573.9	635.3	979.2	1935.8	2910.6	2644.7	2554.7	2143.2	2136.4
65°	446.1	438.8	455.5	484.1	574.6	1500.3	2989.4	3308.5	3184.5	2421.8	2328.7
67.5°	366.8	359.1	375.6	426.6	437.0	870.9	2705.3	3739.4	3714.6	2724.8	2524.0
69°	324.8	320.7	335.1	393.3	419.5	618.5	2356.8	3799.3	3805.2	2903.5	2554.1
70°	292.7	294.3	308.3	376.4	411.6	509.9	2014.3	3716.6	3766.6	2992.7	2521.6
72.5°	215.4	218.9	238.4	311.8	404.0	432.7	1198.7	3246.3	3334.7	2998.0	2306.8
75°	150.6	149.0	166.2	234.7	381.7	428.8	704.0	2510.6	2610.8	2591.3	1938.3
77.5°	98.6	101.2	115.0	165.8	321.1	425.6	458.9	1781.2	1846.2	1733.0	1146.5
80°	69.5	69.3	77.0	113.2	238.2	408.9	375.8	1122.7	1106.2	681.1	340.0
82.5°	39.8	42.7	51.6	79.7	159.3	359.9	345.7	537.0	490.2	194.1	114.8
85°	22.2	23.2	30.7	48.2	93.1	271.1	301.8	244.3	230.5	81.1	49.4
87.5°	7.1	7.7	12.8	24.4	42.3	128.0	170.9	112.8	104.1	29.3	19.9
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°	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5
2.5°	848.7	851.2	844.7	838.4	832.7	824.7	817.6	811.7	807.7	807.1	805.0
5°	851.6	851.8	839.4	822.7	806.5	788.6	770.1	756.9	744.5	737.6	734.1
7.5°	853.6	851.8	829.4	802.4	771.1	738.6	706.1	680.0	659.9	652.0	655.0
10°	852.8	847.1	814.4	771.1	725.6	677.0	630.2	593.7	560.1	542.9	543.3
12.5°	848.3	839.0	792.0	735.9	669.1	604.0	532.5	483.1	444.3	421.3	414.2
15°	844.5	828.2	765.8	688.2	605.0	512.2	425.0	364.0	331.5	313.4	313.2
17.5°	840.4	817.8	737.1	637.6	531.5	412.0	320.5	274.0	258.7	260.6	257.5
20°	836.1	805.6	707.3	581.3	441.8	307.3	240.0	221.1	225.4	233.7	234.9
22.5°	831.2	792.6	675.2	519.3	347.5	231.3	194.7	191.9	202.8	215.8	217.7
25°	823.7	776.4	634.7	454.4	268.1	186.4	170.5	172.5	183.3	194.3	195.5
27.5°	813.2	756.3	593.9	373.6	201.4	159.9	155.9	158.5	163.8	170.5	172.1
30°	798.9	733.5	546.9	303.6	161.4	146.7	145.1	146.5	149.6	152.4	153.2
32.5°	784.7	711.5	499.6	232.5	143.9	138.0	136.4	136.4	136.4	136.8	137.0
35°	771.5	690.8	448.8	181.1	134.7	131.1	128.9	126.4	126.0	124.6	124.6
37.5°	764.2	671.9	394.7	151.6	128.0	125.4	122.3	118.3	116.0	116.3	115.8
40°	765.6	659.5	345.5	135.0	122.6	119.7	115.0	110.4	108.9	108.9	108.5
42.5°	781.7	655.4	298.4	126.2	117.3	114.0	108.1	103.9	103.0	102.8	103.2
45°	818.6	665.4	256.1	120.5	112.8	107.9	102.0	98.2	97.4	97.4	97.1
47.5°	890.8	697.7	225.8	116.9	109.5	103.2	97.1	93.3	91.9	91.5	91.5
50°	1003.0	767.8	203.2	113.6	105.5	99.0	92.7	88.2	86.0	85.8	85.6
52.5°	1158.9	877.2	194.5	111.2	101.0	94.5	87.6	83.3	80.5	79.9	79.5
55°	1341.2	1029.8	206.5	109.3	96.3	89.4	82.3	77.8	75.2	74.0	73.8
57.5°	1552.3	1213.1	252.0	106.9	92.1	83.9	77.0	72.6	69.7	68.3	67.9
60°	1742.0	1401.5	331.5	105.5	88.4	78.0	70.9	66.9	64.2	62.8	62.6
62.5°	1950.3	1581.2	426.4	109.3	86.8	72.4	65.2	61.6	59.3	57.9	57.9
65°	2172.8	1761.1	489.2	122.3	89.2	67.9	59.1	56.1	54.1	53.0	52.8
67.5°	2322.8	1823.3	403.0	135.8	95.3	63.0	53.2	50.8	49.6	48.6	48.6
69°	2306.6	1744.6	297.3	139.2	97.1	60.6	50.0	48.2	46.5	46.1	45.7
70°	2255.1	1655.0	249.2	137.0	95.7	58.3	48.0	45.7	44.3	43.9	43.7
72.5°	2008.6	1435.3	185.6	119.1	81.5	50.6	42.5	40.4	39.2	38.6	38.6
75°	1668.8	1173.1	144.9	94.7	63.8	42.7	36.4	34.8	33.7	33.3	33.1
77.5°	935.3	655.0	104.1	74.2	48.4	34.6	30.5	29.1	28.0	27.6	27.6
80°	260.6	187.2	61.2	49.0	32.9	26.2	24.2	23.2	21.7	20.7	21.3
82.5°	98.2	81.1	35.0	29.5	20.9	17.5	16.9	16.1	15.4	14.0	14.0
85°	47.8	39.4	22.4	15.6	11.6	9.1	8.7	8.3	7.9	6.9	7.1
87.5°	16.5	17.5	9.8	5.7	3.5	2.2	1.8	1.0	1.0	1.0	1.0
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)