

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: P451543

Luminaire Tested: **GALN-SA2B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7280 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

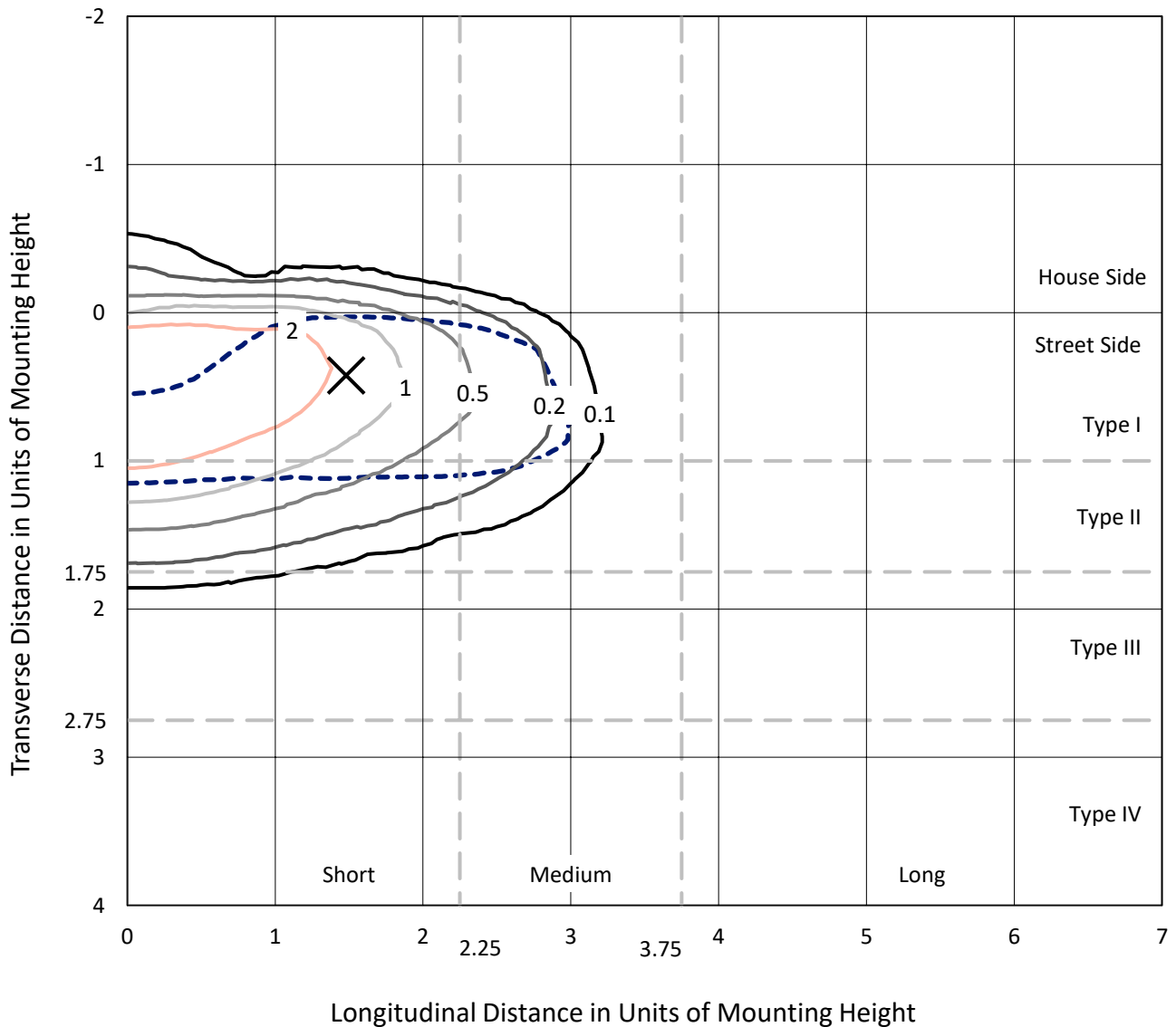
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

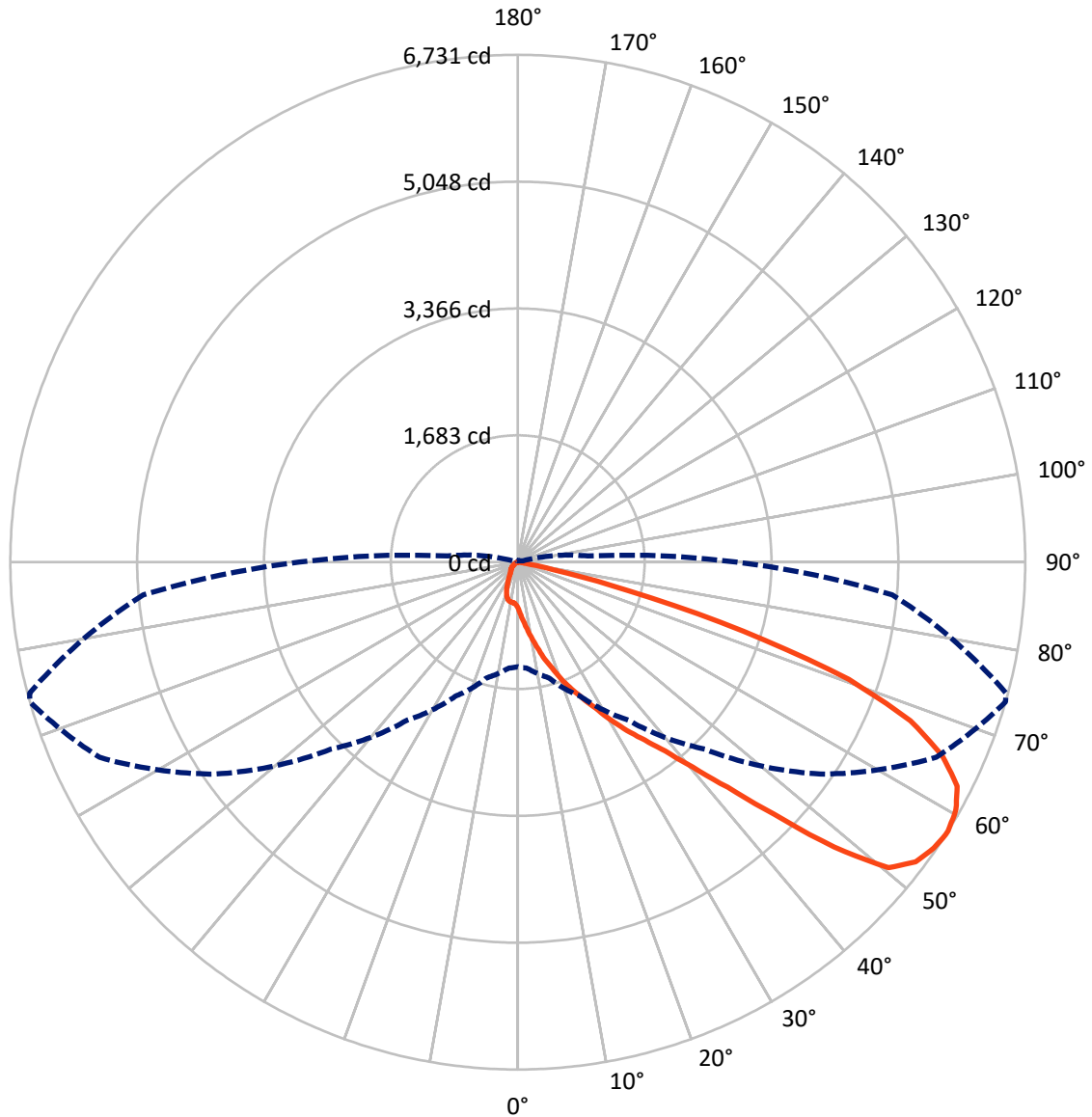
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.9	0.0	419.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	6860.1	0.0	6860.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	7280.0	0.0	7280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.0
10°-20°	290.1	4.0
20°-30°	620.7	8.5
30°-40°	1140.8	15.7
40°-50°	1748.8	24.0
50°-60°	1850.0	25.4
60°-70°	1208.1	16.6
70°-80°	330.1	4.5
80°-90°	17.8	0.2
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°	7280.0	100.0
0°-180°	7280.0	100.0

Coefficient of Utilization



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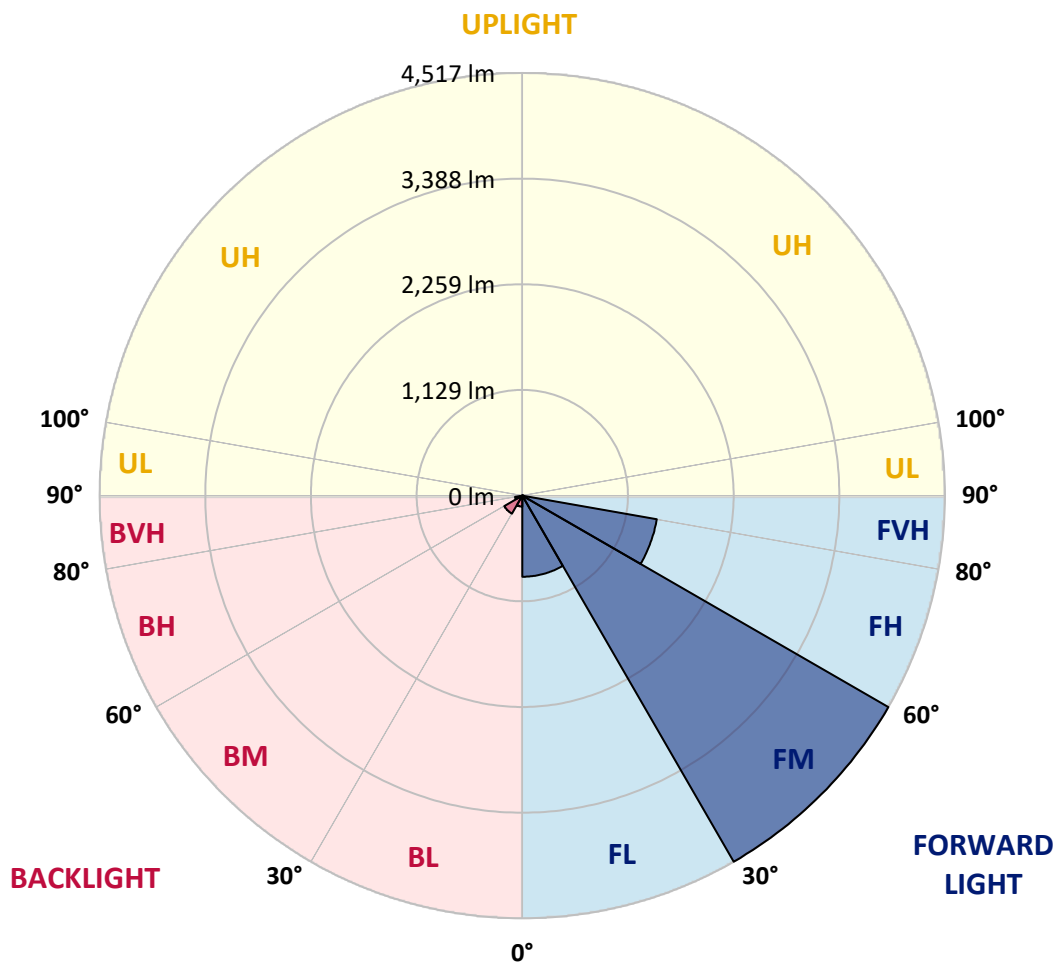
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.0	11.9			
FM	(30°-60°)	4517.4	62.1			
FH	(60°-80°)	1459.4	20.0			G1/1800
FVH	(80°-90°)	16.3	0.2			G1/100
BL	(0°-30°)	117.3	1.6	B1/500		
BM	(30°-60°)	222.3	3.1	B1/1000		
BH	(60°-80°)	78.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			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°	74°	75°	85°
0°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	892.2	884.1	868.0	862.5	838.9	802.2	770.0	726.8	692.6	689.1	647.9
5°	1194.8	1176.7	1169.1	1132.9	1076.1	1022.9	931.4	862.0	782.1	776.1	693.1
7.5°	1486.3	1461.1	1453.6	1419.4	1353.1	1269.1	1150.5	1024.4	897.7	886.1	753.9
10°	1697.4	1700.9	1687.3	1664.7	1610.9	1525.5	1379.2	1206.8	1026.4	1011.8	822.3
12.5°	1848.7	1848.2	1850.7	1850.2	1821.5	1756.7	1602.9	1404.3	1168.1	1139.5	900.7
15°	1947.2	1948.7	1956.2	1982.4	1985.4	1945.2	1817.0	1593.3	1332.5	1296.8	985.7
17.5°	2046.7	2057.3	2069.3	2094.0	2116.1	2100.0	2009.5	1790.4	1481.3	1454.6	1076.6
20°	2211.1	2225.6	2218.6	2233.7	2245.2	2246.8	2176.9	1972.3	1661.7	1617.0	1180.7
22.5°	2473.9	2473.4	2455.3	2428.2	2405.6	2404.6	2341.3	2159.3	1825.6	1782.3	1285.2
25°	2806.2	2807.7	2772.5	2695.1	2638.8	2569.9	2497.1	2323.2	2001.0	1947.7	1395.3
27.5°	3187.2	3177.6	3124.3	3017.8	2906.2	2788.6	2683.5	2513.7	2186.9	2142.7	1521.5
30°	3529.5	3526.0	3463.6	3333.4	3186.7	3068.6	2916.3	2752.4	2427.7	2373.4	1662.7
32.5°	3848.1	3853.2	3766.7	3632.0	3490.3	3354.1	3193.2	2980.6	2663.9	2587.0	1816.5
35°	4096.9	4102.0	4012.5	3900.4	3754.6	3641.6	3488.3	3223.9	2897.2	2832.3	1993.4
37.5°	4229.6	4236.2	4184.4	4100.0	4009.0	3952.2	3809.4	3537.0	3180.6	3141.4	2202.5
40°	4254.8	4262.3	4239.7	4217.1	4212.0	4252.8	4211.0	3905.9	3573.7	3512.4	2514.2
42.5°	4179.4	4189.4	4199.5	4249.7	4352.3	4501.6	4646.8	4406.6	4079.8	3997.4	2895.2
45°	3981.3	3980.3	4020.0	4150.2	4379.9	4698.6	5102.2	5033.3	4769.5	4671.4	3433.5
47.5°	3642.6	3637.5	3723.5	3909.0	4266.8	4734.8	5473.6	5794.3	5649.6	5559.1	4012.0
50°	3126.4	3151.0	3286.2	3545.1	3985.9	4625.2	5588.2	6293.4	6371.8	6275.8	4479.4
52.5°	2521.7	2520.7	2732.8	3084.1	3569.7	4383.9	5508.3	6383.9	6606.6	6533.2	4709.6
55°	1866.3	1879.3	2100.0	2454.3	3029.4	3943.6	5247.5	6290.9	6696.0	6644.3	4861.4
57°	1388.3	1411.4	1588.3	1963.3	2558.9	3507.9	4900.1	6124.5	6731.2	6703.1	4987.6
57.5°	1295.8	1296.8	1469.2	1810.0	2421.2	3340.5	4800.6	6055.2	6730.2	6714.6	5008.2
60°	797.7	822.8	941.9	1223.4	1772.3	2607.1	4133.6	5656.6	6677.9	6700.6	5096.2
62.5°	477.5	488.1	565.5	737.4	1142.5	1903.0	3382.7	5146.4	6541.7	6610.6	5090.1
65°	307.1	309.6	344.8	446.3	714.2	1286.2	2606.6	4472.4	6189.4	6316.1	4891.1
67.5°	237.2	241.3	255.3	293.0	414.2	801.2	1843.6	3753.1	5619.4	5782.8	4408.6
70°	210.6	212.6	217.6	229.7	273.9	452.4	1147.0	2931.8	4659.9	4706.1	3450.1
72.5°	171.9	177.4	193.0	197.0	217.1	282.5	638.3	1967.8	3130.9	3142.4	1930.1
75°	133.2	134.2	157.3	168.9	183.0	194.5	285.0	992.2	1503.9	1423.4	743.9
77.5°	99.5	104.0	114.6	129.2	149.3	139.2	127.7	374.0	466.9	458.4	216.1
80°	63.8	66.3	79.9	97.0	116.1	91.0	71.9	109.6	102.5	105.6	51.8
82.5°	32.2	32.7	51.3	78.9	73.9	45.7	45.2	44.7	38.2	37.7	24.1
85°	3.5	7.5	33.2	45.2	33.2	15.1	21.1	20.6	20.1	20.6	14.1
87.5°	0.5	0.5	5.5	6.5	4.5	5.0	6.0	6.5	8.0	7.5	6.0
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°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	627.8	607.7	570.5	534.8	508.2	491.1	469.0	460.9	449.4	447.8	442.3
5°	654.9	616.7	551.9	500.6	459.4	428.2	401.1	378.5	360.4	356.4	358.4
7.5°	693.6	636.8	546.4	476.5	419.2	365.9	322.7	296.0	276.9	269.9	270.9
10°	737.4	663.5	545.4	450.9	363.4	298.1	250.8	227.2	216.1	212.1	207.6
12.5°	789.1	694.1	542.8	411.2	302.1	237.7	204.1	190.0	179.4	176.4	176.4
15°	847.4	726.8	530.8	361.9	245.3	196.5	173.9	162.9	159.3	156.3	156.3
17.5°	908.3	759.0	505.6	301.1	203.6	168.4	154.3	147.8	142.7	139.2	139.2
20°	977.6	790.6	465.4	247.3	171.9	150.3	139.2	131.7	127.7	124.7	123.6
22.5°	1043.5	816.3	414.2	203.1	149.8	135.2	125.2	117.1	113.1	111.6	111.6
25°	1111.8	831.9	352.3	167.9	136.7	122.6	111.6	105.0	101.5	100.5	100.0
27.5°	1178.2	840.9	298.1	146.8	124.7	111.1	100.5	95.5	92.0	91.0	91.5
30°	1258.6	842.4	245.3	131.7	114.1	100.0	90.5	85.9	83.9	82.9	82.4
32.5°	1340.0	840.4	206.1	122.6	104.0	90.5	82.4	78.9	77.4	75.9	75.9
35°	1431.5	829.8	175.4	113.6	94.5	82.4	75.4	72.4	70.4	68.9	68.4
37.5°	1545.1	824.3	157.8	103.5	85.9	74.9	68.4	65.3	63.8	61.8	61.3
40°	1724.0	848.9	152.3	94.5	77.4	67.9	61.8	58.3	56.3	54.3	53.8
42.5°	1947.2	892.2	143.2	85.4	69.9	61.3	55.3	51.3	47.7	45.2	44.2
45°	2236.2	949.0	129.2	75.9	63.3	54.3	48.8	43.7	39.2	37.2	36.7
47.5°	2539.3	1003.8	116.6	68.4	56.3	48.3	42.2	36.7	32.7	31.2	30.7
50°	2725.3	1014.8	108.6	59.8	49.3	41.7	35.7	30.7	28.1	26.6	26.6
52.5°	2810.2	997.2	97.5	52.3	42.7	36.7	30.7	26.6	25.1	24.1	23.6
55°	2869.5	970.1	82.9	45.2	36.7	31.2	27.1	24.1	22.1	21.1	20.6
57°	2904.2	933.4	71.9	39.7	31.7	27.1	24.1	21.6	19.6	17.6	17.6
57.5°	2905.7	919.3	68.9	39.2	30.2	26.1	23.6	21.1	18.6	16.6	16.1
60°	2861.0	822.8	55.3	33.2	24.1	22.1	19.6	16.6	13.1	11.1	10.6
62.5°	2717.2	700.2	45.7	28.1	19.6	17.1	14.1	12.6	9.0	6.5	6.5
65°	2499.6	568.0	39.2	22.6	16.1	12.6	9.5	9.0	5.5	3.0	2.5
67.5°	2184.9	442.3	33.2	18.6	13.6	9.0	6.5	6.0	3.0	1.0	0.0
70°	1664.7	301.6	27.6	15.1	10.1	6.5	4.5	3.5	2.0	0.5	0.0
72.5°	959.5	165.9	23.1	11.6	7.5	5.0	3.5	2.0	2.0	0.0	0.0
75°	342.8	71.4	17.6	8.5	6.0	4.0	2.5	1.0	1.5	0.5	0.0
77.5°	109.1	38.2	11.6	6.5	5.0	3.0	2.0	1.0	1.0	0.5	0.0
80°	32.2	20.1	7.0	5.5	3.5	2.5	1.5	0.5	1.0	0.5	0.0
82.5°	17.6	10.1	5.5	4.0	3.5	2.0	1.5	0.5	0.5	0.5	0.0
85°	9.0	6.0	4.5	4.0	3.5	2.0	1.5	0.5	0.0	0.5	0.5
87.5°	5.0	4.5	4.5	4.0	3.5	2.5	1.5	0.5	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)