

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: P451398

Luminaire Tested: **GALN-SA2B-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451398
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-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 8343 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

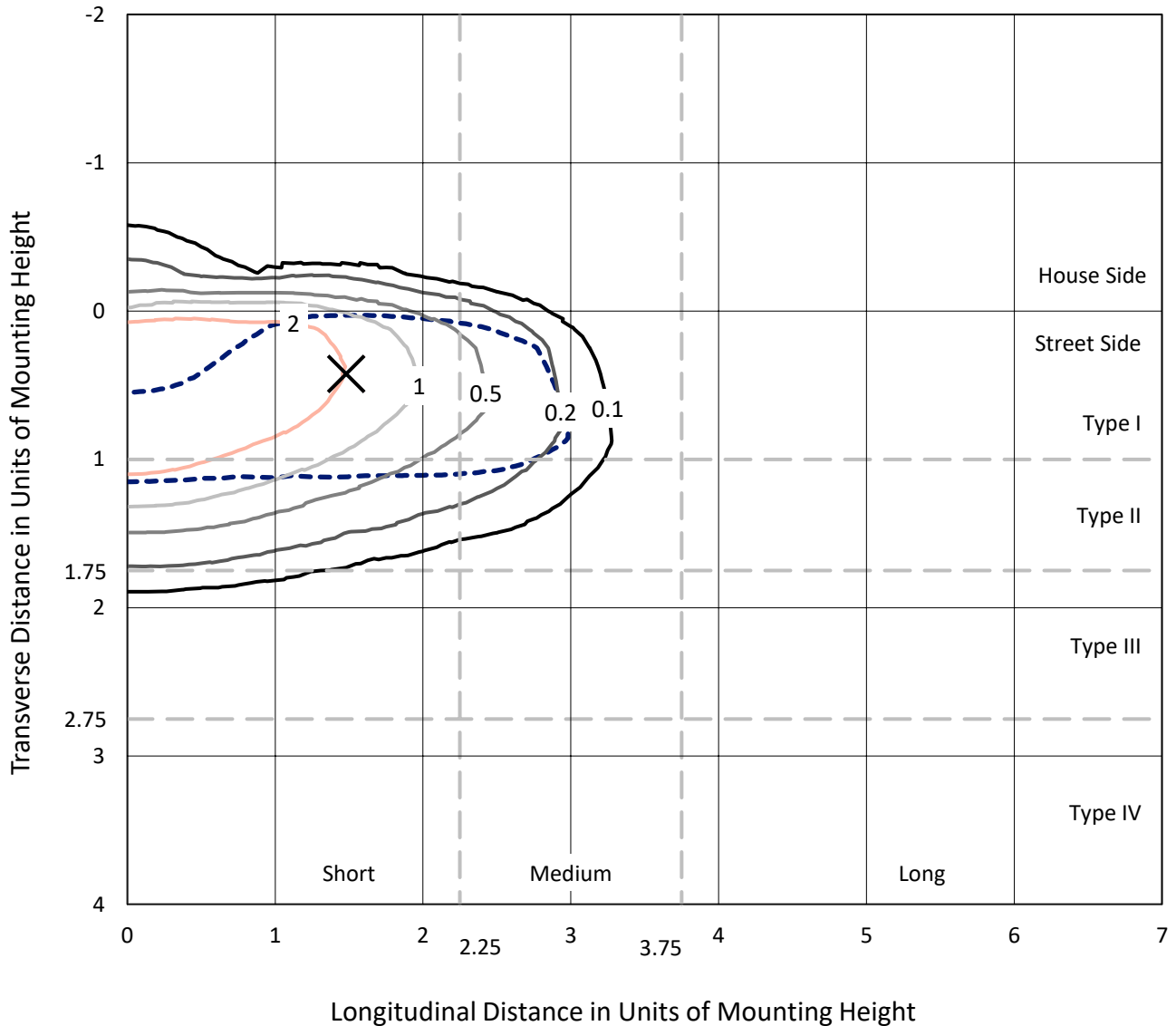
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

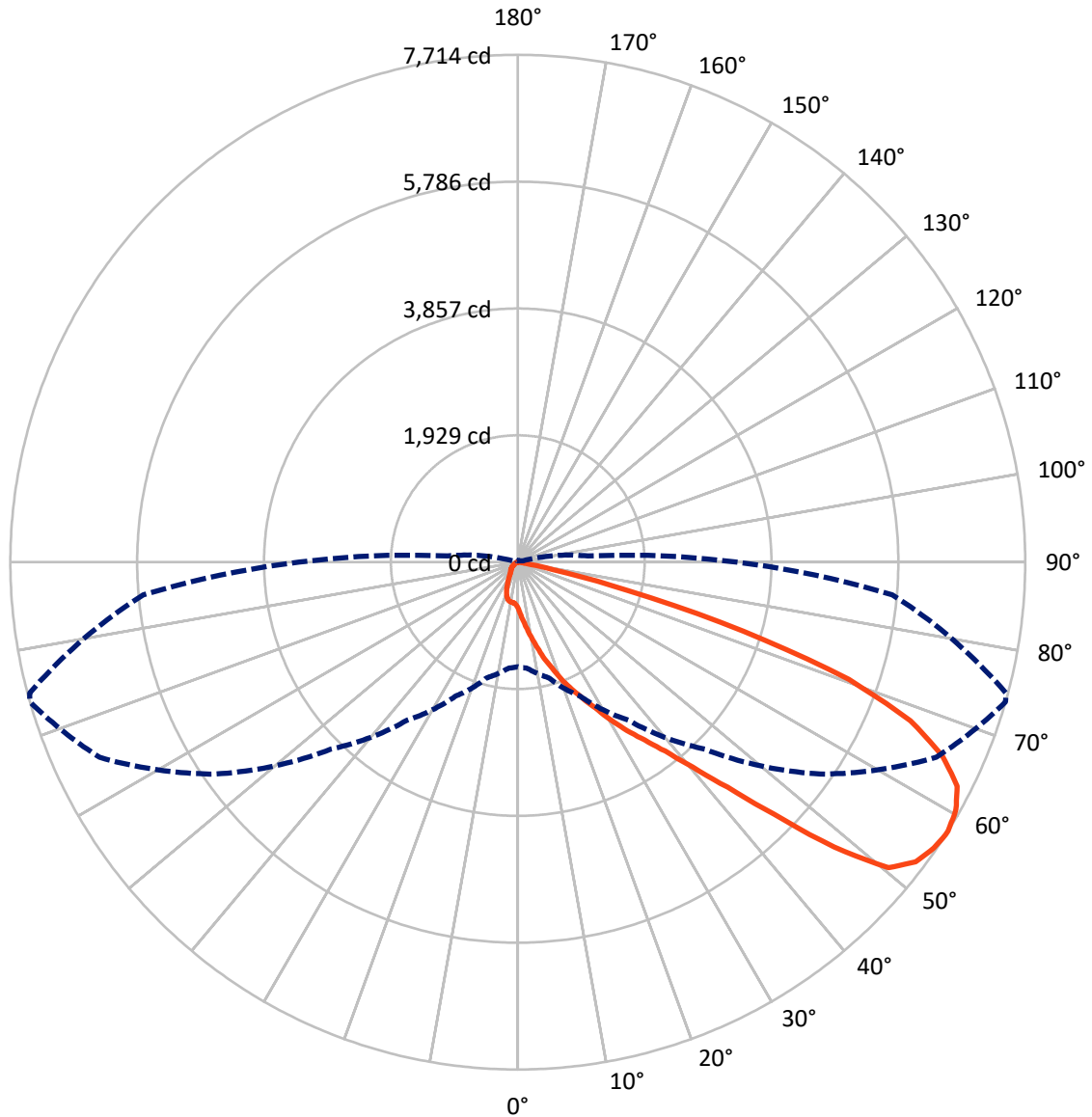
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	481.2	0.0	481.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	7861.8	0.0	7861.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	8343.0	0.0	8343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.0
10°-20°	332.4	4.0
20°-30°	711.3	8.5
30°-40°	1307.4	15.7
40°-50°	2004.2	24.0
50°-60°	2120.2	25.4
60°-70°	1384.5	16.6
70°-80°	378.3	4.5
80°-90°	20.4	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°	8343.0	100.0
0°-180°	8343.0	100.0

Coefficient of Utilization



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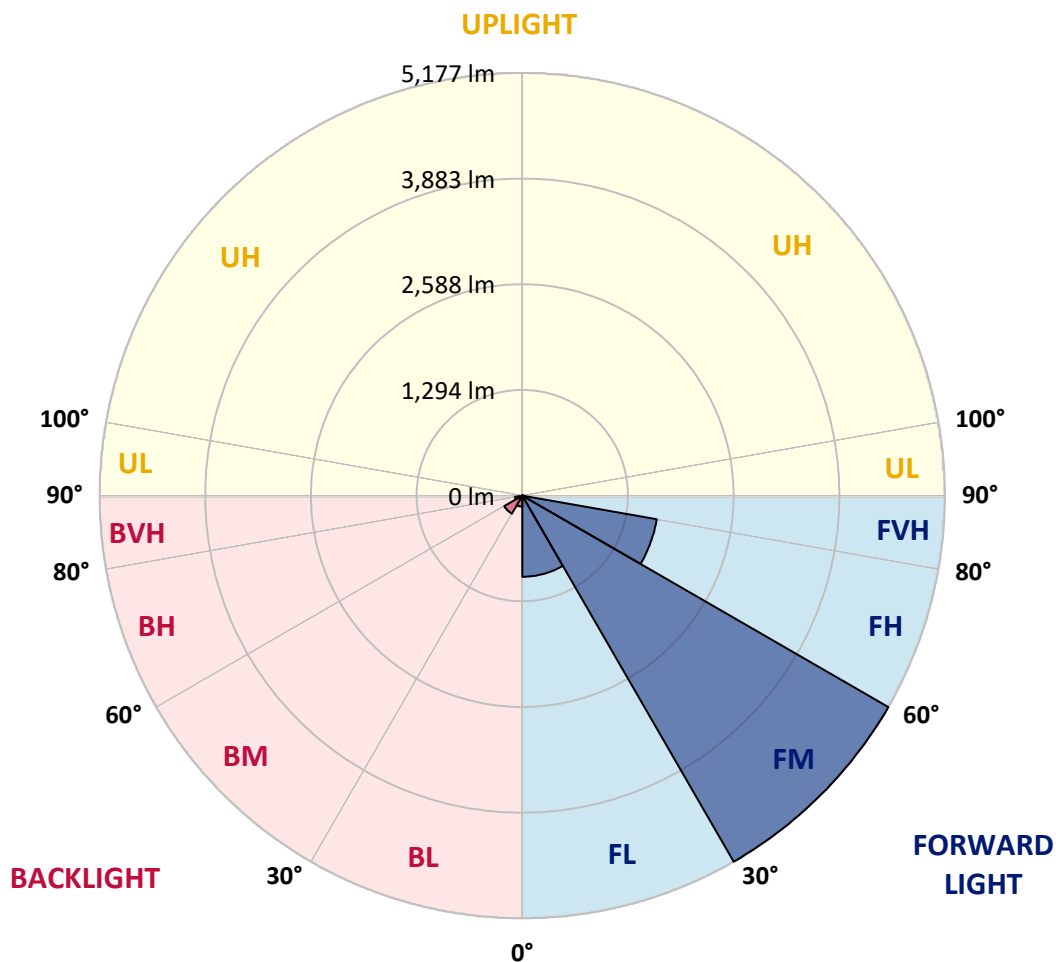
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.6	11.9			
FM (30°-60°)	5177.0	62.1			
FH (60°-80°)	1672.5	20.0			G1/1800
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	134.4	1.6	B1/500		
BM (30°-60°)	254.8	3.1	B1/1000		
BH (60°-80°)	90.3	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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°	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7
2.5°	1022.4	1013.2	994.8	988.5	961.4	919.3	882.5	832.9	793.8	789.7	742.5
5°	1369.2	1348.5	1339.8	1298.4	1233.3	1172.2	1067.4	987.9	896.3	889.4	794.3
7.5°	1703.3	1674.5	1665.9	1626.7	1550.7	1454.5	1318.5	1173.9	1028.8	1015.5	864.0
10°	1945.2	1949.3	1933.7	1907.8	1846.2	1748.2	1580.6	1383.0	1176.2	1159.5	942.4
12.5°	2118.6	2118.0	2120.9	2120.3	2087.5	2013.2	1836.9	1609.4	1338.7	1305.8	1032.2
15°	2231.5	2233.2	2241.9	2271.8	2275.3	2229.2	2082.3	1826.0	1527.0	1486.1	1129.6
17.5°	2345.6	2357.7	2371.5	2399.7	2425.1	2406.6	2302.9	2051.8	1697.5	1667.0	1233.8
20°	2533.9	2550.6	2542.6	2559.8	2573.1	2574.8	2494.8	2260.3	1904.3	1853.1	1353.1
22.5°	2835.2	2834.6	2813.9	2782.8	2756.8	2755.7	2683.1	2474.6	2092.1	2042.6	1472.9
25°	3215.9	3217.7	3177.3	3088.6	3024.1	2945.2	2861.7	2662.4	2293.1	2232.1	1599.0
27.5°	3652.6	3641.6	3580.6	3458.4	3330.6	3195.8	3075.4	2880.7	2506.3	2455.6	1743.6
30°	4044.8	4040.8	3969.4	3820.2	3652.0	3516.6	3342.1	3154.3	2782.2	2720.0	1905.5
32.5°	4410.0	4415.8	4316.7	4162.3	3999.9	3843.8	3659.5	3415.8	3052.9	2964.8	2081.7
35°	4695.2	4700.9	4598.4	4469.9	4302.9	4173.3	3997.6	3694.6	3320.2	3245.9	2284.5
37.5°	4847.2	4854.7	4795.4	4698.6	4594.4	4529.3	4365.7	4053.5	3645.1	3600.1	2524.1
40°	4876.0	4884.7	4858.8	4832.8	4827.1	4873.7	4825.9	4476.3	4095.5	4025.2	2881.3
42.5°	4789.6	4801.1	4812.7	4870.3	4987.8	5158.9	5325.3	5050.0	4675.6	4581.1	3317.9
45°	4562.7	4561.5	4607.0	4756.2	5019.5	5384.7	5847.2	5768.3	5465.9	5353.6	3934.8
47.5°	4174.4	4168.7	4267.2	4479.7	4889.9	5426.1	6272.9	6640.4	6474.5	6370.8	4597.8
50°	3582.9	3611.1	3766.0	4062.7	4567.9	5300.6	6404.2	7212.4	7302.2	7192.2	5133.5
52.5°	2889.9	2888.8	3131.8	3534.5	4090.9	5024.1	6312.6	7316.1	7571.2	7487.1	5397.3
55°	2138.8	2153.7	2406.6	2812.7	3471.7	4519.5	6013.7	7209.5	7673.8	7614.4	5571.3
57°	1591.0	1617.5	1820.2	2249.9	2932.5	4020.1	5615.6	7018.8	7714.1	7681.8	5715.9
57.5°	1485.0	1486.1	1683.7	2074.3	2774.7	3828.2	5501.6	6939.3	7712.9	7695.1	5739.5
60°	914.1	942.9	1079.5	1402.0	2031.1	2987.8	4737.2	6482.6	7653.0	7679.0	5840.3
62.5°	547.2	559.3	648.0	845.0	1309.3	2180.8	3876.6	5897.9	7496.9	7575.8	5833.4
65°	351.9	354.8	395.2	511.5	818.5	1474.0	2987.3	5125.4	7093.1	7238.3	5605.3
67.5°	271.9	276.5	292.6	335.8	474.6	918.2	2112.9	4301.2	6439.9	6627.1	5052.3
70°	241.4	243.7	249.4	263.2	313.9	518.4	1314.5	3359.9	5340.3	5393.3	3953.8
72.5°	197.0	203.3	221.2	225.8	248.8	323.7	731.5	2255.1	3588.0	3601.3	2211.9
75°	152.6	153.8	180.3	193.5	209.7	222.9	326.6	1137.1	1723.5	1631.3	852.5
77.5°	114.1	119.2	131.3	148.0	171.1	159.6	146.3	428.6	535.1	525.3	247.7
80°	73.2	76.0	91.6	111.2	133.1	104.3	82.4	125.6	117.5	121.0	59.3
82.5°	36.9	37.4	58.8	90.4	84.7	52.4	51.8	51.3	43.8	43.2	27.6
85°	4.0	8.6	38.0	51.8	38.0	17.3	24.2	23.6	23.0	23.6	16.1
87.5°	0.6	0.6	6.3	7.5	5.2	5.8	6.9	7.5	9.2	8.6	6.9
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°	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7	698.7
2.5°	719.5	696.4	653.8	612.9	582.4	562.8	537.4	528.2	515.0	513.2	506.9
5°	750.6	706.8	632.5	573.7	526.5	490.8	459.7	433.7	413.0	408.4	410.7
7.5°	794.9	729.8	626.1	546.1	480.4	419.3	369.8	339.3	317.4	309.3	310.5
10°	845.0	760.3	625.0	516.7	416.5	341.6	287.4	260.4	247.7	243.1	237.9
12.5°	904.4	795.5	622.1	471.2	346.2	272.5	233.9	217.7	205.6	202.2	202.2
15°	971.2	832.9	608.3	414.7	281.1	225.2	199.3	186.6	182.6	179.1	179.1
17.5°	1040.9	869.8	579.5	345.0	233.3	193.0	176.8	169.4	163.6	159.6	159.6
20°	1120.4	906.1	533.4	283.4	197.0	172.2	159.6	150.9	146.3	142.9	141.7
22.5°	1195.8	935.5	474.6	232.7	171.7	155.0	143.4	134.2	129.6	127.9	127.9
25°	1274.2	953.3	403.8	192.4	156.7	140.5	127.9	120.4	116.4	115.2	114.6
27.5°	1350.2	963.7	341.6	168.2	142.9	127.3	115.2	109.4	105.4	104.3	104.8
30°	1442.4	965.4	281.1	150.9	130.8	114.6	103.7	98.5	96.2	95.0	94.5
32.5°	1535.7	963.1	236.2	140.5	119.2	103.7	94.5	90.4	88.7	87.0	87.0
35°	1640.5	951.0	201.0	130.2	108.3	94.5	86.4	82.9	80.6	78.9	78.3
37.5°	1770.7	944.7	180.9	118.7	98.5	85.8	78.3	74.9	73.2	70.9	70.3
40°	1975.8	972.9	174.5	108.3	88.7	77.8	70.9	66.8	64.5	62.2	61.6
42.5°	2231.5	1022.4	164.2	97.9	80.1	70.3	63.4	58.8	54.7	51.8	50.7
45°	2562.7	1087.5	148.0	87.0	72.6	62.2	55.9	50.1	44.9	42.6	42.0
47.5°	2910.1	1150.3	133.6	78.3	64.5	55.3	48.4	42.0	37.4	35.7	35.1
50°	3123.2	1163.0	124.4	68.5	56.5	47.8	40.9	35.1	32.3	30.5	30.5
52.5°	3220.5	1142.8	111.7	59.9	49.0	42.0	35.1	30.5	28.8	27.6	27.1
55°	3288.5	1111.7	95.0	51.8	42.0	35.7	31.1	27.6	25.3	24.2	23.6
57°	3328.3	1069.7	82.4	45.5	36.3	31.1	27.6	24.8	22.5	20.2	20.2
57.5°	3330.0	1053.5	78.9	44.9	34.6	30.0	27.1	24.2	21.3	19.0	18.4
60°	3278.7	942.9	63.4	38.0	27.6	25.3	22.5	19.0	15.0	12.7	12.1
62.5°	3114.0	802.4	52.4	32.3	22.5	19.6	16.1	14.4	10.4	7.5	7.5
65°	2864.6	650.9	44.9	25.9	18.4	14.4	10.9	10.4	6.3	3.5	2.9
67.5°	2504.0	506.9	38.0	21.3	15.6	10.4	7.5	6.9	3.5	1.2	0.0
70°	1907.8	345.6	31.7	17.3	11.5	7.5	5.2	4.0	2.3	0.6	0.0
72.5°	1099.6	190.1	26.5	13.2	8.6	5.8	4.0	2.3	2.3	0.0	0.0
75°	392.8	81.8	20.2	9.8	6.9	4.6	2.9	1.2	1.7	0.6	0.0
77.5°	125.0	43.8	13.2	7.5	5.8	3.5	2.3	1.2	1.2	0.6	0.0
80°	36.9	23.0	8.1	6.3	4.0	2.9	1.7	0.6	1.2	0.6	0.0
82.5°	20.2	11.5	6.3	4.6	4.0	2.3	1.7	0.6	0.6	0.6	0.0
85°	10.4	6.9	5.2	4.6	4.0	2.3	1.7	0.6	0.0	0.6	0.6
87.5°	5.8	5.2	5.2	4.6	4.0	2.9	1.7	0.6	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)