

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: P457894

Luminaire Tested: **GALN-SA9B-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457894
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-SA9B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 37613 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

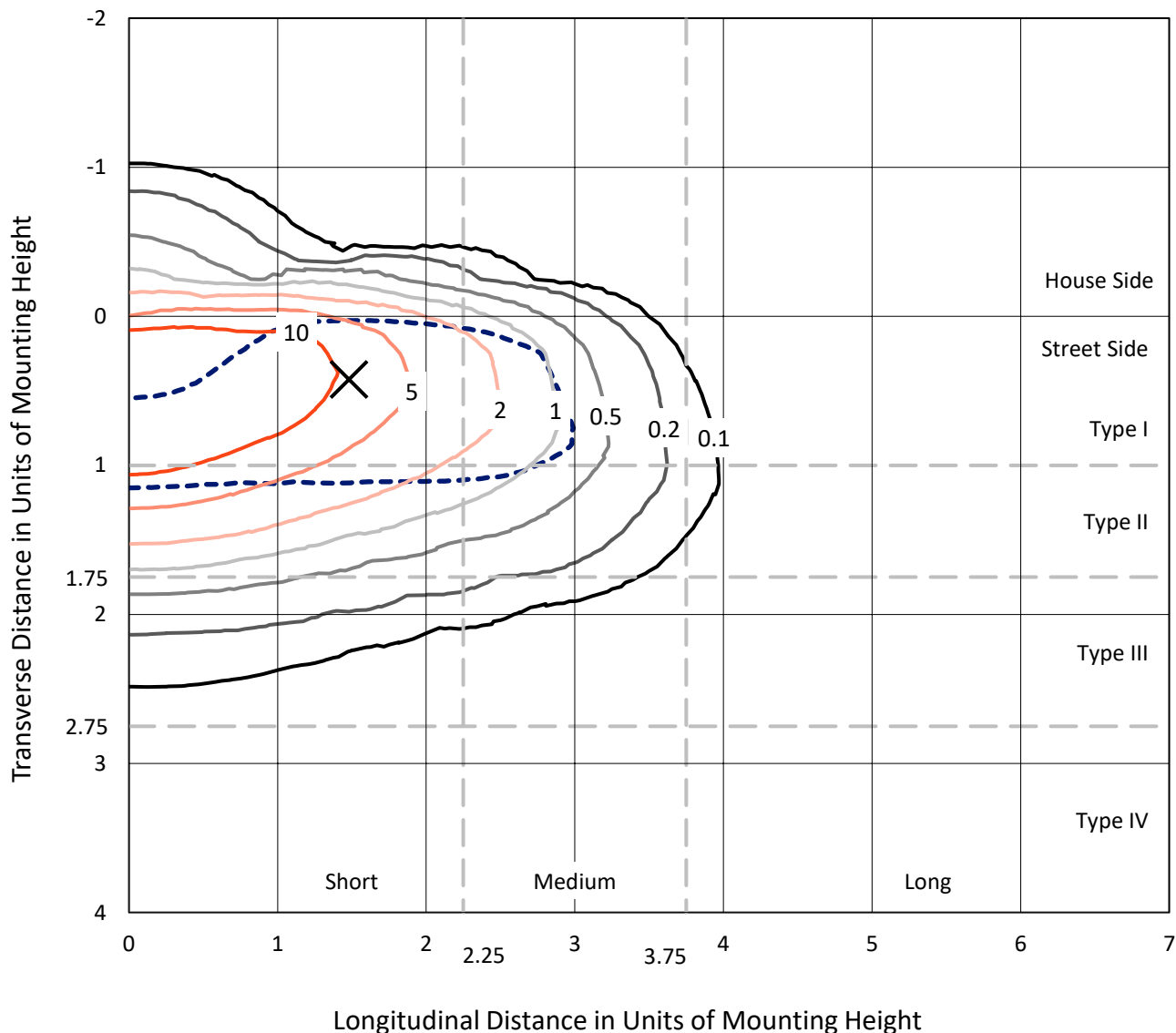
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

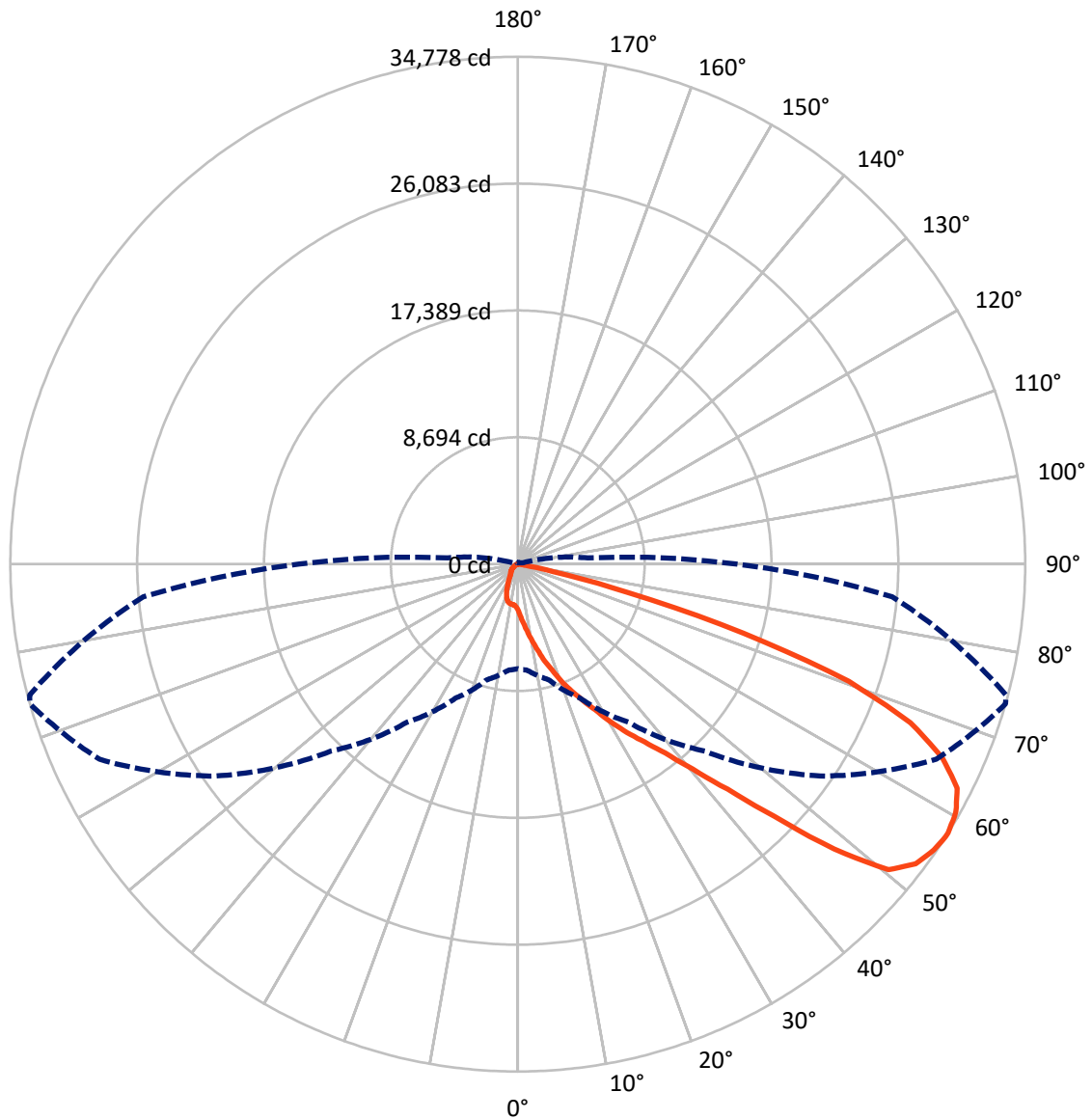
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	2169.4	0.0	2169.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	35443.6	0.0	35443.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	37613.0	0.0	37613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	1.0
10°-20°	1498.7	4.0
20°-30°	3206.8	8.5
30°-40°	5894.0	15.7
40°-50°	9035.6	24.0
50°-60°	9558.5	25.4
60°-70°	6241.9	16.6
70°-80°	1705.5	4.5
80°-90°	91.8	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°	37613.0	100.0
0°-180°	37613.0	100.0

Coefficient of Utilization



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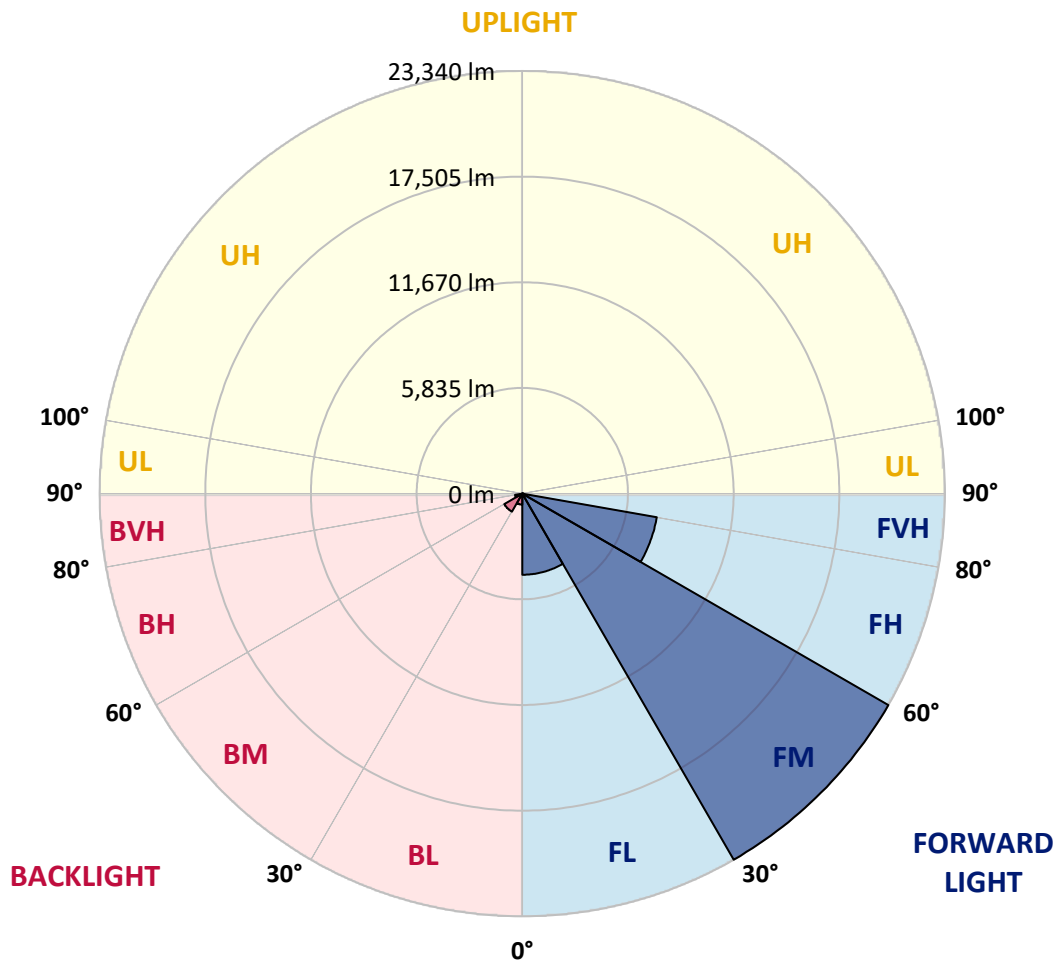
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4479.7	11.9			
FM	(30°-60°)	23339.6	62.1			
FH	(60°-80°)	7540.2	20.0			G4/12000
FVH	(80°-90°)	84.2	0.2			G1/100
BL	(0°-30°)	606.0	1.6	B2/1000		
BM	(30°-60°)	1148.5	3.1	B2/2500		
BH	(60°-80°)	407.3	1.1	B1/500		G1/500
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	4609.5	4567.9	4484.8	4456.3	4334.2	4144.7	3978.5	3755.1	3578.5	3560.3	3347.4
5°	6172.8	6079.3	6040.4	5853.4	5560.0	5284.7	4812.1	4453.7	4040.8	4009.6	3581.1
7.5°	7679.0	7549.2	7510.2	7333.6	6990.9	6557.2	5944.3	5292.5	4638.1	4578.3	3895.4
10°	8769.7	8787.9	8717.8	8600.9	8323.1	7881.6	7125.9	6235.2	5302.9	5227.6	4248.5
12.5°	9551.4	9548.8	9561.8	9559.2	9411.2	9076.2	8281.5	7255.7	6035.2	5887.2	4653.6
15°	10060.4	10068.2	10107.1	10242.2	10257.8	10050.0	9387.8	8232.2	6884.4	6700.0	5092.5
17.5°	10574.6	10629.1	10691.4	10818.7	10932.9	10849.8	10382.4	9250.2	7653.1	7515.4	5562.6
20°	11423.8	11499.1	11462.7	11540.6	11600.4	11608.1	11247.2	10190.2	8585.4	8354.2	6100.1
22.5°	12781.9	12779.3	12685.9	12545.6	12428.8	12423.6	12096.4	11156.3	9431.9	9208.6	6640.3
25°	14498.5	14506.3	14324.5	13924.6	13633.7	13277.9	12901.4	12002.9	10338.3	10063.0	7209.0
27.5°	16466.9	16417.6	16142.3	15591.8	15015.3	14407.6	13864.8	12987.1	11299.1	11070.6	7860.8
30°	18235.4	18217.3	17895.2	17222.6	16464.3	15854.1	15067.2	14220.6	12543.0	12262.6	8590.5
32.5°	19881.9	19907.8	19461.2	18765.2	18032.9	17329.1	16498.1	15399.6	13763.6	13366.2	9385.2
35°	21167.3	21193.3	20731.1	20151.9	19398.8	18814.5	18022.5	16656.5	14968.5	14633.5	10299.3
37.5°	21852.9	21886.7	21619.2	21182.9	20712.9	20419.4	19681.9	18274.4	16433.2	16230.6	11379.6
40°	21982.8	22021.7	21904.9	21788.0	21762.0	21972.4	21756.8	20180.5	18464.0	18147.1	12989.7
42.5°	21593.2	21645.2	21697.1	21956.8	22486.6	23257.8	24008.3	22767.0	21079.0	20653.1	14958.1
45°	20570.0	20564.9	20770.0	21442.6	22629.4	24275.8	26361.1	26005.4	24642.0	24135.6	17739.4
47.5°	18819.7	18793.8	19237.8	20196.1	22045.1	24462.8	28280.2	29937.1	29189.2	28721.7	20728.5
50°	16152.7	16280.0	16978.5	18315.9	20593.4	23896.7	28872.3	32515.8	32920.9	32424.9	23143.6
52.5°	13028.6	13023.5	14119.3	15934.6	18443.2	22650.2	28459.4	32983.2	34133.7	33754.5	24333.0
55°	9642.3	9709.8	10849.8	12680.7	15651.5	20375.3	27111.6	32502.8	34595.9	34328.4	25117.2
57°	7172.6	7292.1	8206.2	10143.5	13220.8	18123.8	25317.2	31643.2	34777.7	34632.3	25769.0
57.5°	6694.8	6700.0	7590.7	9351.4	12509.3	17259.0	24803.0	31284.9	34772.5	34692.0	25875.5
60°	4121.3	4251.1	4866.6	6320.9	9156.7	13470.1	21356.9	29225.5	34502.4	34619.3	26330.0
62.5°	2467.1	2521.6	2921.5	3809.7	5902.8	9831.9	17477.1	26589.7	33798.7	34154.4	26298.8
65°	1586.7	1599.7	1781.5	2306.0	3690.2	6645.5	13467.5	23107.2	31978.2	32632.6	25270.4
67.5°	1225.7	1246.5	1319.2	1514.0	2139.8	4139.5	9525.4	19391.1	29033.3	29877.3	22777.4
70°	1088.1	1098.5	1124.5	1186.8	1415.3	2337.2	5926.1	15147.7	24075.9	24314.8	17825.1
72.5°	888.1	916.7	997.2	1018.0	1121.9	1459.5	3298.1	10166.9	16176.1	16235.8	9972.1
75°	688.2	693.4	812.8	872.6	945.3	1005.0	1472.4	5126.3	7769.9	7354.4	3843.4
77.5°	514.2	537.6	592.1	667.4	771.3	719.3	659.6	1932.1	2412.5	2368.4	1116.7
80°	329.8	342.8	412.9	501.2	599.9	470.0	371.4	566.1	529.8	545.3	267.5
82.5°	166.2	168.8	264.9	407.7	381.7	236.3	233.7	231.1	197.4	194.8	124.7
85°	18.2	39.0	171.4	233.7	171.4	77.9	109.1	106.5	103.9	106.5	72.7
87.5°	2.6	2.6	28.6	33.8	23.4	26.0	31.2	33.8	41.6	39.0	31.2
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°	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0	3150.0
2.5°	3243.5	3139.7	2947.5	2763.1	2625.5	2537.2	2422.9	2381.4	2321.6	2313.8	2285.3
5°	3383.8	3186.4	2851.4	2586.5	2373.6	2212.6	2072.3	1955.5	1862.0	1841.2	1851.6
7.5°	3583.7	3290.3	2822.8	2461.9	2165.8	1890.5	1667.2	1529.6	1430.9	1394.5	1399.7
10°	3809.7	3427.9	2817.6	2329.4	1877.6	1540.0	1295.9	1173.8	1116.7	1095.9	1072.5
12.5°	4077.1	3586.3	2804.7	2124.3	1560.7	1228.3	1054.3	981.6	927.1	911.5	911.5
15°	4378.4	3755.1	2742.3	1869.8	1267.3	1015.4	898.5	841.4	823.2	807.6	807.6
17.5°	4692.6	3921.3	2612.5	1555.5	1051.7	870.0	797.2	763.5	737.5	719.3	719.3
20°	5051.0	4084.9	2404.7	1277.7	888.1	776.5	719.3	680.4	659.6	644.0	638.8
22.5°	5391.2	4217.4	2139.8	1049.1	773.9	698.6	646.6	605.1	584.3	576.5	576.5
25°	5744.3	4297.9	1820.4	867.4	706.4	633.6	576.5	542.8	524.6	519.4	516.8
27.5°	6087.1	4344.6	1540.0	758.3	644.0	573.9	519.4	493.4	475.2	470.0	472.6
30°	6502.6	4352.4	1267.3	680.4	589.5	516.8	467.4	444.1	433.7	428.5	425.9
32.5°	6923.3	4342.0	1064.7	633.6	537.6	467.4	425.9	407.7	399.9	392.1	392.1
35°	7396.0	4287.5	906.3	586.9	488.2	425.9	389.5	374.0	363.6	355.8	353.2
37.5°	7982.9	4258.9	815.4	535.0	444.1	386.9	353.2	337.6	329.8	319.4	316.8
40°	8907.4	4386.2	786.9	488.2	399.9	350.6	319.4	301.2	290.9	280.5	277.9
42.5°	10060.4	4609.5	740.1	441.5	361.0	316.8	285.7	264.9	246.7	233.7	228.5
45°	11553.6	4902.9	667.4	392.1	327.2	280.5	251.9	225.9	202.6	192.2	189.6
47.5°	13119.5	5186.0	602.5	353.2	290.9	249.3	218.1	189.6	168.8	161.0	158.4
50°	14080.4	5243.1	560.9	309.0	254.5	215.5	184.4	158.4	145.4	137.6	137.6
52.5°	14519.3	5152.2	503.8	270.1	220.7	189.6	158.4	137.6	129.8	124.7	122.1
55°	14825.7	5012.0	428.5	233.7	189.6	161.0	140.2	124.7	114.3	109.1	106.5
57°	15004.9	4822.4	371.4	205.2	163.6	140.2	124.7	111.7	101.3	90.9	90.9
57.5°	15012.7	4749.7	355.8	202.6	155.8	135.0	122.1	109.1	96.1	85.7	83.1
60°	14781.6	4251.1	285.7	171.4	124.7	114.3	101.3	85.7	67.5	57.1	54.5
62.5°	14038.8	3617.5	236.3	145.4	101.3	88.3	72.7	64.9	46.7	33.8	33.8
65°	12914.4	2934.5	202.6	116.9	83.1	64.9	49.3	46.7	28.6	15.6	13.0
67.5°	11288.7	2285.3	171.4	96.1	70.1	46.7	33.8	31.2	15.6	5.2	0.0
70°	8600.9	1558.1	142.8	77.9	51.9	33.8	23.4	18.2	10.4	2.6	0.0
72.5°	4957.5	857.0	119.5	59.7	39.0	26.0	18.2	10.4	10.4	0.0	0.0
75°	1771.1	368.8	90.9	44.1	31.2	20.8	13.0	5.2	7.8	2.6	0.0
77.5°	563.5	197.4	59.7	33.8	26.0	15.6	10.4	5.2	5.2	2.6	0.0
80°	166.2	103.9	36.4	28.6	18.2	13.0	7.8	2.6	5.2	2.6	0.0
82.5°	90.9	51.9	28.6	20.8	18.2	10.4	7.8	2.6	2.6	2.6	0.0
85°	46.7	31.2	23.4	20.8	18.2	10.4	7.8	2.6	0.0	2.6	2.6
87.5°	26.0	23.4	23.4	20.8	18.2	13.0	7.8	2.6	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)