

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: P456051

Luminaire Tested: **GALN-SA7B-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32472 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

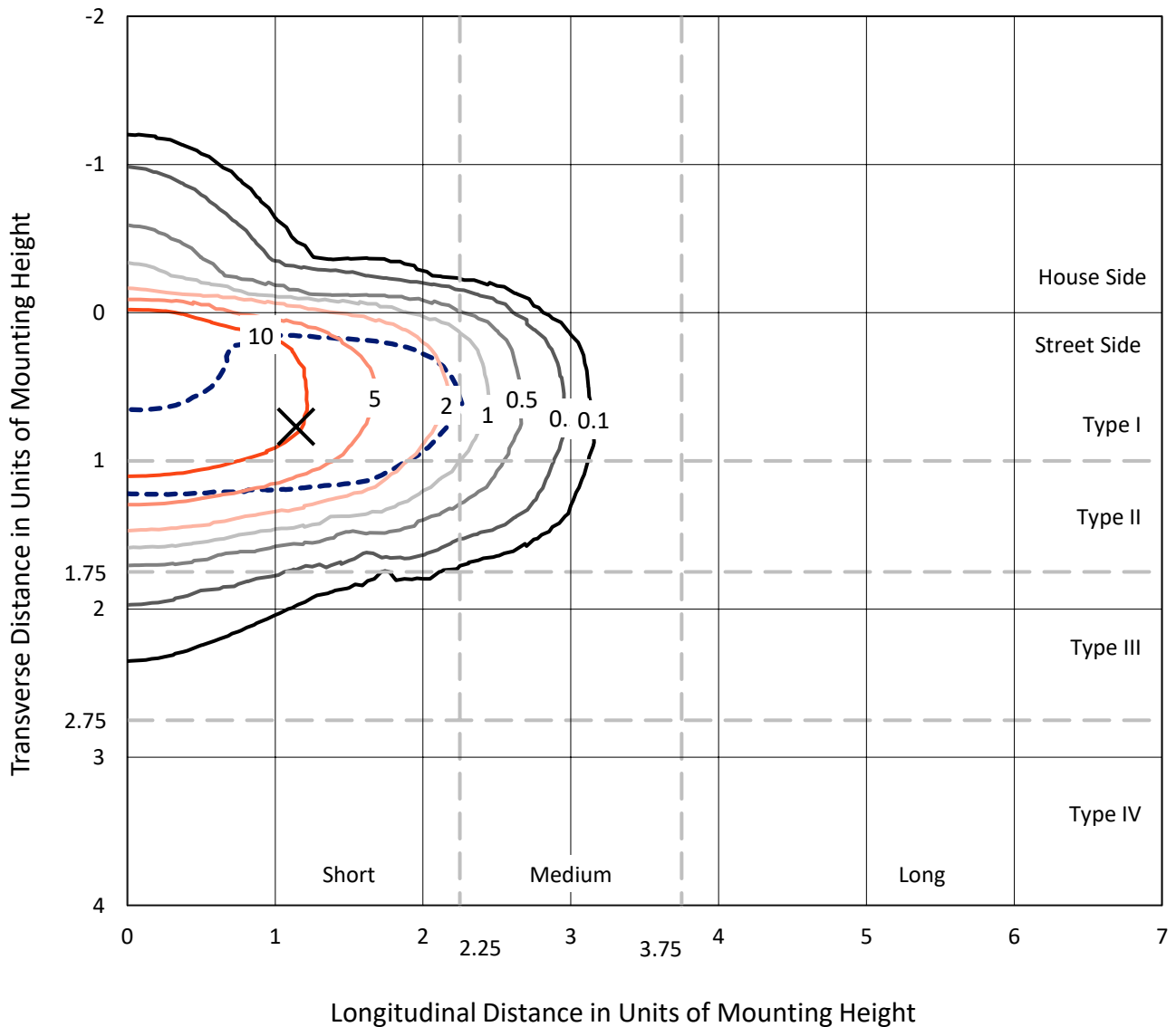
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

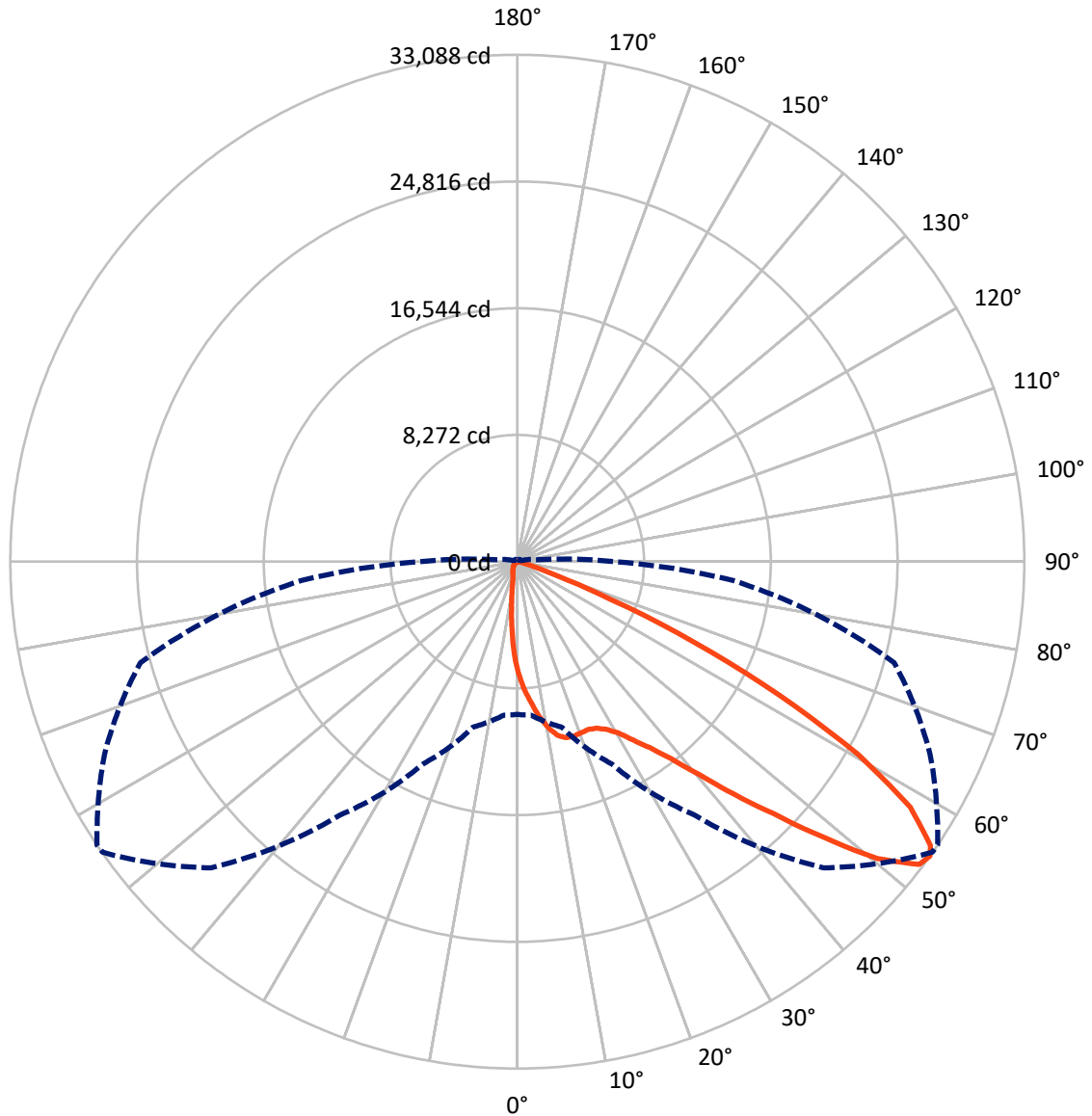
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.5	0.0	1535.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	30936.5	0.0	30936.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	32472.0	0.0	32472.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.5	2.0
10°-20°	1723.4	5.3
20°-30°	2984.7	9.2
30°-40°	5152.1	15.9
40°-50°	8769.2	27.0
50°-60°	8678.2	26.7
60°-70°	3960.9	12.2
70°-80°	508.7	1.6
80°-90°	57.3	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°	32472.0	100.0
0°-180°	32472.0	100.0

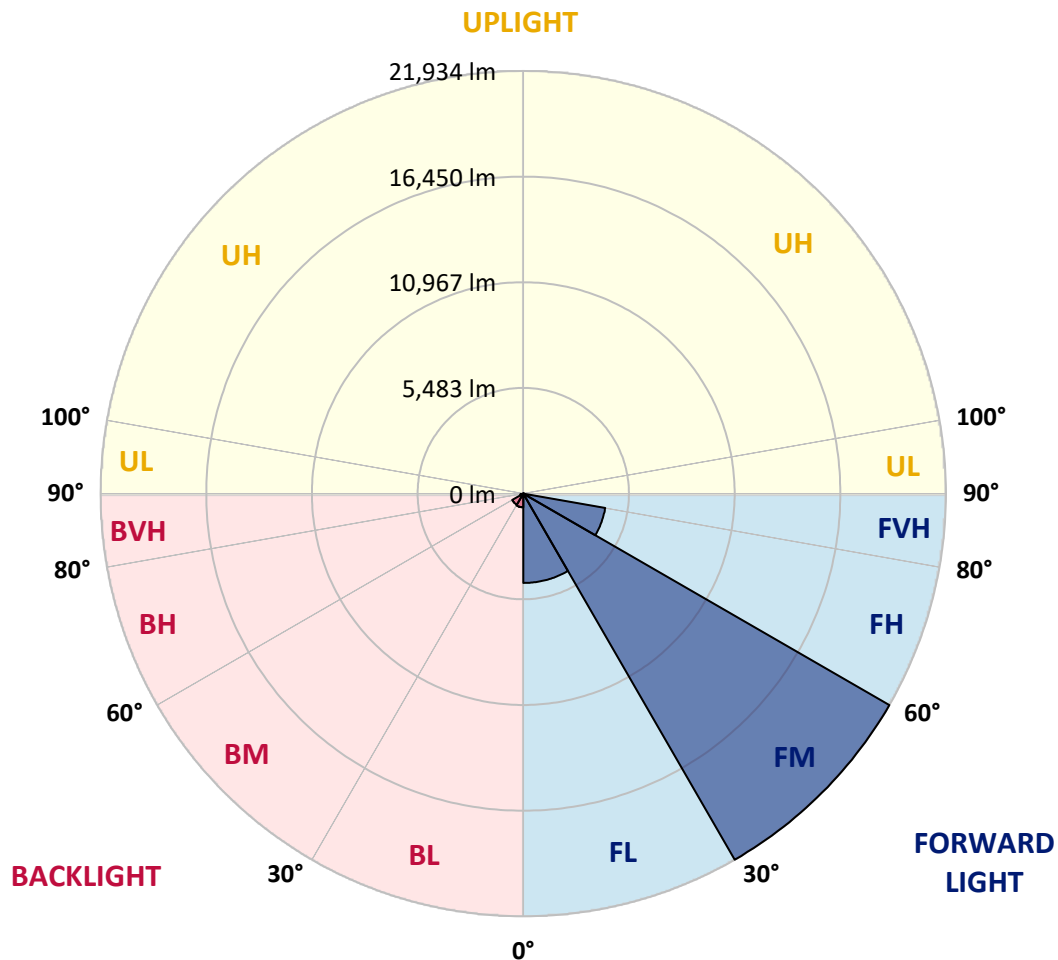


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4635.5	14.3			
FM (30°-60°)	21934.0	67.5			
FH (60°-80°)	4315.8	13.3			G2/5000
FVH (80°-90°)	51.2	0.2			G1/100
BL (0°-30°)	710.1	2.2	B2/1000		
BM (30°-60°)	665.5	2.0	B1/1000		
BH (60°-80°)	153.8	0.5	B1/500		G1/500
BVH (80°-90°)	6.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3
2.5°	9168.5	9105.0	9017.4	8949.5	8789.5	8559.5	8316.3	8316.3	8081.9	7755.5	7422.5
5°	10575.1	10533.4	10448.0	10272.7	10093.1	9771.0	9282.5	9197.0	8778.6	8187.1	7564.9
7.5°	11146.9	11166.6	11171.0	11124.9	11039.5	10721.8	10237.7	10178.5	9510.3	8717.2	7751.1
10°	10599.1	10695.5	10789.8	10980.4	11249.8	11326.5	11052.6	10991.3	10334.1	9254.0	7952.6
12.5°	9784.2	9836.7	9889.3	10189.5	10730.6	11350.6	11637.6	11635.4	11078.9	9788.5	8209.0
15°	9405.2	9451.2	9455.5	9589.2	10058.0	10960.6	11887.3	11920.2	11806.3	10448.0	8485.0
17.5°	9484.0	9521.3	9490.6	9523.5	9768.8	10531.2	11858.9	11968.4	12395.6	11081.1	8734.8
20°	9998.9	10071.2	9952.9	9860.8	9935.3	10417.3	11762.5	11915.8	12811.9	11698.9	8962.6
22.5°	10923.4	10962.8	10813.8	10561.9	10430.5	10656.1	11736.2	11887.3	13166.8	12205.0	9094.1
25°	11950.9	11937.7	11773.4	11490.8	11214.8	11138.1	11909.3	12045.1	13460.4	12660.7	9133.5
27.5°	12978.4	13017.8	12741.8	12391.2	12060.4	11861.1	12297.0	12397.8	13791.2	13179.9	9181.7
30°	14172.4	14108.8	13837.2	13436.3	13057.2	12779.0	12921.4	12949.9	14246.9	13867.8	9308.8
32.5°	15725.7	15550.4	15245.9	14544.8	14273.1	13802.1	13837.2	13872.2	14801.1	14549.2	9462.1
35°	17833.2	17824.4	17228.5	16284.3	15622.7	15037.7	14884.4	14912.9	15640.2	15561.3	9801.7
37.5°	20370.2	20405.2	19726.1	18775.3	17557.2	16628.3	16312.8	16317.2	16915.3	16959.1	10318.7
40°	22436.1	22528.1	22122.8	21480.9	20278.2	18825.7	18295.5	18247.3	18707.3	18652.6	11057.0
42.5°	23325.6	23411.0	23562.2	23785.6	23124.0	21925.6	20674.7	20740.4	20880.6	20497.2	11885.2
45°	22889.6	23025.4	23619.1	24999.4	25621.6	25218.4	23726.5	23496.5	22902.8	22501.8	12717.7
47.5°	21073.4	21404.2	22396.7	24694.8	26872.5	28235.2	27170.5	26865.9	24927.1	23965.3	13247.8
50°	18087.3	18107.1	19489.5	22427.3	26224.0	30139.0	30686.7	30458.9	26813.4	24786.9	13515.1
52.5°	13112.0	13543.6	14809.9	18212.2	23415.4	29849.8	32927.9	32833.7	28758.8	25207.5	13900.7
54°	9968.2	10051.4	11177.5	14553.6	20188.3	28261.5	33065.9	33087.8	29724.9	25461.6	14128.5
55°	8171.7	7972.4	9155.4	12397.8	17986.6	26857.2	32614.6	32719.8	30158.7	25593.1	14297.2
57.5°	3873.4	3875.5	4780.4	6539.6	11265.2	20854.3	29856.4	30228.8	30206.9	25818.7	14816.5
60°	1960.8	1973.9	2173.3	3018.9	5564.7	13863.5	24686.1	25573.4	27882.5	25851.6	14987.3
62.5°	1371.4	1356.1	1323.3	1452.5	2342.0	7045.7	18378.7	19149.9	23689.3	24600.6	14444.0
65°	1174.3	1141.4	1049.4	1029.7	1183.0	2806.4	11447.0	12704.5	18087.3	21301.3	12897.3
67.5°	1003.4	990.2	907.0	856.6	836.9	1222.5	5906.4	6568.1	12362.8	15311.6	9768.8
70°	852.2	845.7	795.3	731.7	677.0	731.7	2190.8	2714.4	6890.1	8244.0	4609.5
72.5°	692.3	698.9	707.6	626.6	569.6	519.2	935.5	1088.8	2883.1	2946.6	1612.4
75°	606.9	600.3	600.3	545.5	475.4	385.6	514.8	554.3	882.9	819.4	374.6
77.5°	427.2	411.9	482.0	449.1	396.5	273.9	293.6	311.1	365.9	313.3	175.3
80°	295.8	295.8	308.9	403.1	357.1	199.4	179.6	192.8	216.9	186.2	100.8
82.5°	166.5	170.9	201.6	214.7	208.1	133.6	118.3	120.5	144.6	127.1	63.5
85°	19.7	32.9	116.1	113.9	85.4	59.2	65.7	67.9	89.8	78.9	37.2
87.5°	2.2	4.4	24.1	30.7	21.9	24.1	24.1	24.1	30.7	35.1	26.3
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°	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3	7214.3
2.5°	7242.8	7076.3	6679.8	6219.7	5926.1	5448.6	5045.4	4754.1	4681.8	4541.6	4583.2
5°	7234.1	6887.9	6079.5	5225.1	4313.7	3634.6	3128.5	2729.8	2554.5	2438.4	2357.3
7.5°	7238.4	6697.3	5400.4	4039.9	2951.0	2285.0	1816.2	1573.0	1410.9	1343.0	1351.7
10°	7251.6	6482.6	4611.7	2992.6	1991.4	1476.6	1189.6	1073.5	1018.7	1010.0	1007.8
12.5°	7282.3	6248.2	3858.0	2221.5	1393.4	1073.5	964.0	924.5	907.0	907.0	900.4
15°	7315.1	5989.7	3231.4	1651.9	1073.5	922.3	871.9	852.2	841.3	841.3	839.1
17.5°	7315.1	5691.7	2646.5	1281.6	924.5	847.8	808.4	782.1	773.4	773.4	771.2
20°	7269.1	5345.6	2127.3	1031.9	839.1	777.7	738.3	709.8	698.9	694.5	692.3
22.5°	7109.2	4883.3	1693.5	887.3	769.0	716.4	666.0	633.1	624.4	620.0	622.2
25°	6824.4	4361.9	1340.8	779.9	705.4	641.9	598.1	574.0	565.2	565.2	567.4
27.5°	6530.8	3816.4	1062.5	698.9	628.8	571.8	536.7	521.4	519.2	525.8	528.0
30°	6259.2	3268.7	861.0	633.1	560.8	512.7	488.6	484.2	484.2	486.4	488.6
32.5°	5956.8	2788.9	720.8	576.2	506.1	464.5	451.3	451.3	455.7	455.7	460.1
35°	5766.2	2377.0	633.1	521.4	464.5	429.4	420.6	422.8	429.4	438.2	442.5
37.5°	5663.2	2048.4	576.2	477.6	425.0	400.9	392.2	396.5	411.9	427.2	429.4
40°	5672.0	1800.8	530.2	440.4	394.3	368.1	361.5	374.6	390.0	405.3	407.5
42.5°	5768.4	1616.8	486.4	396.5	368.1	330.8	328.6	341.8	348.3	363.7	365.9
45°	5882.3	1483.2	440.4	350.5	319.9	287.0	289.2	300.1	308.9	333.0	337.4
47.5°	5917.4	1391.2	387.8	298.0	262.9	251.9	254.1	260.7	278.2	300.1	302.3
50°	5956.8	1334.2	337.4	251.9	223.5	221.3	223.5	227.8	238.8	247.6	245.4
52.5°	6125.5	1332.0	295.8	219.1	190.6	195.0	197.2	195.0	186.2	173.1	168.7
54°	6283.2	1338.6	276.0	203.7	175.3	181.8	179.6	168.7	146.8	133.6	127.1
55°	6410.3	1345.2	265.1	192.8	166.5	168.7	170.9	149.0	120.5	107.3	103.0
57.5°	6660.1	1329.8	238.8	168.7	146.8	138.0	135.8	98.6	65.7	57.0	52.6
60°	6535.2	1200.6	216.9	144.6	124.9	111.7	92.0	54.8	32.9	24.1	24.1
62.5°	6044.5	1018.7	192.8	118.3	103.0	85.4	48.2	30.7	15.3	8.8	6.6
65°	5406.9	856.6	173.1	94.2	81.1	54.8	26.3	19.7	6.6	0.0	0.0
67.5°	4020.1	635.3	146.8	74.5	61.3	35.1	17.5	11.0	2.2	0.0	0.0
70°	1862.2	387.8	124.9	57.0	43.8	26.3	13.1	6.6	0.0	0.0	0.0
72.5°	534.6	243.2	103.0	41.6	30.7	21.9	11.0	4.4	2.2	0.0	0.0
75°	186.2	195.0	76.7	30.7	24.1	15.3	8.8	4.4	2.2	0.0	0.0
77.5°	111.7	157.7	48.2	26.3	19.7	13.1	8.8	4.4	2.2	2.2	0.0
80°	63.5	105.2	30.7	21.9	17.5	11.0	6.6	4.4	2.2	2.2	0.0
82.5°	35.1	50.4	24.1	19.7	15.3	11.0	6.6	4.4	2.2	2.2	2.2
85°	28.5	26.3	19.7	17.5	13.1	8.8	6.6	2.2	0.0	0.0	0.0
87.5°	21.9	17.5	17.5	17.5	13.1	8.8	6.6	2.2	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)