

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: P455558

Luminaire Tested: **GALN-SA6D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455558
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-SA6D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 34229 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

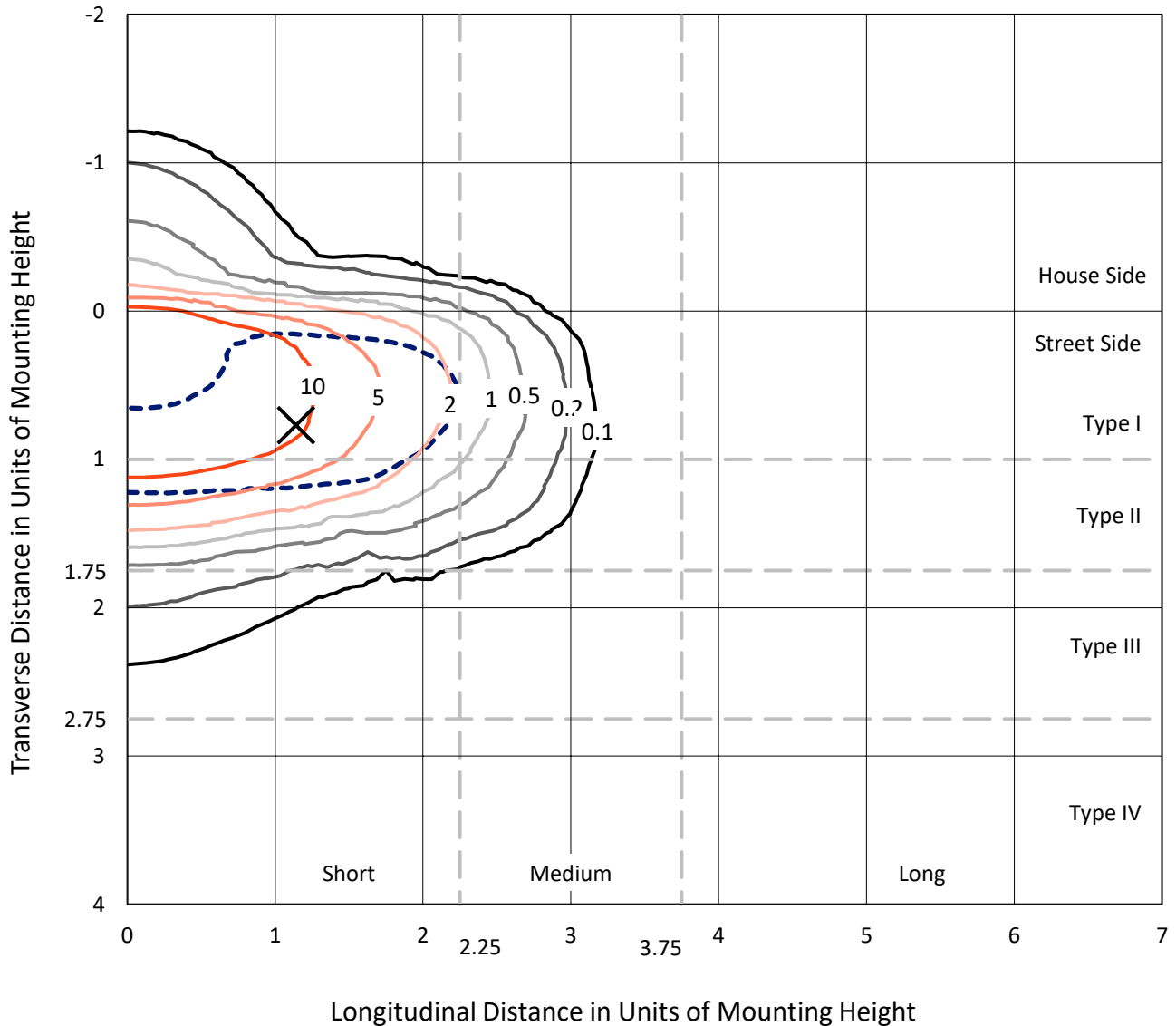
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

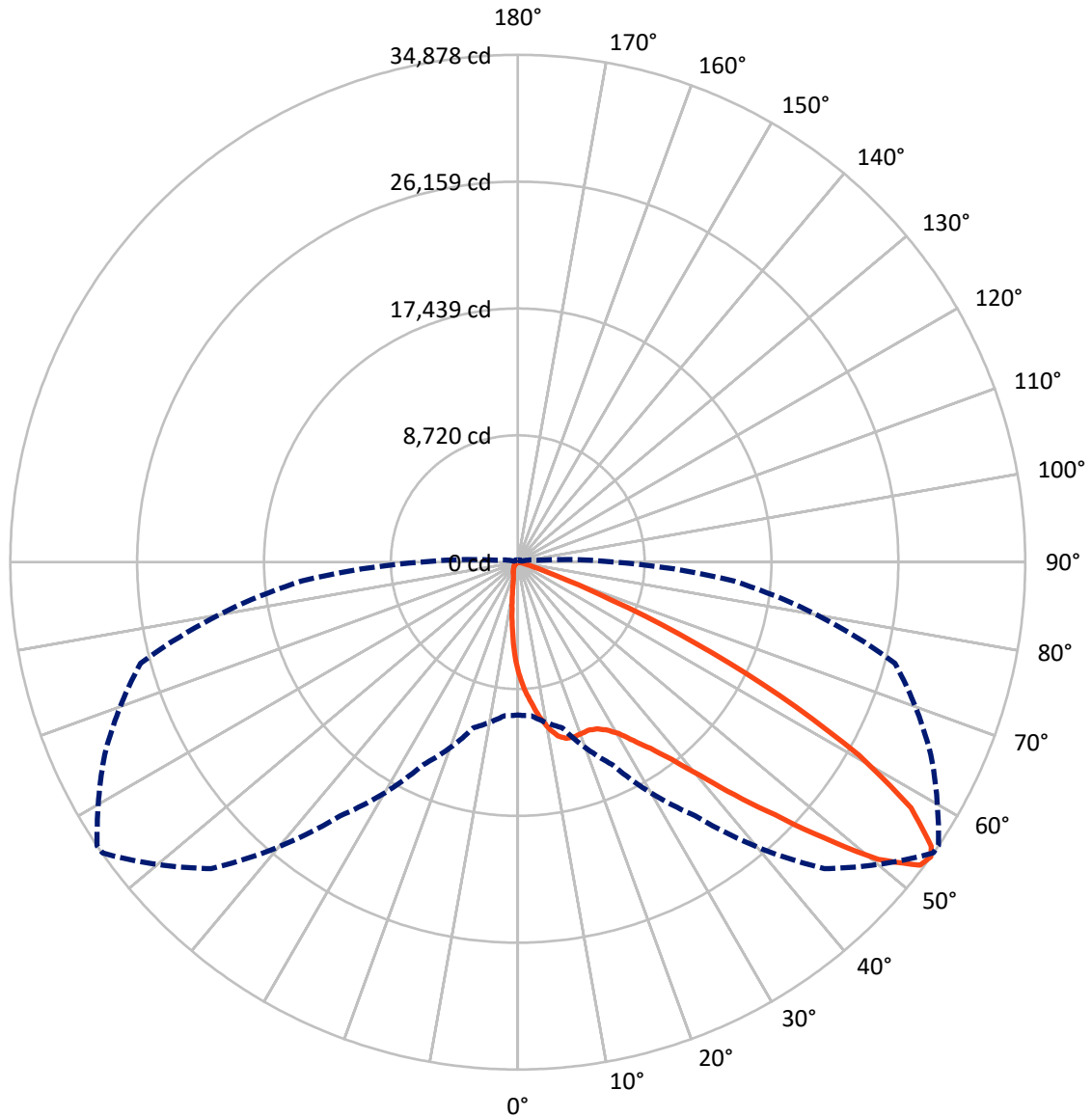
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	1618.6	0.0	1618.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	32610.4	0.0	32610.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	34229.0	0.0	34229.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.0	2.0
10°-20°	1816.6	5.3
20°-30°	3146.3	9.2
30°-40°	5430.9	15.9
40°-50°	9243.6	27.0
50°-60°	9147.7	26.7
60°-70°	4175.2	12.2
70°-80°	536.2	1.6
80°-90°	60.4	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°	34229.0	100.0
0°-180°	34229.0	100.0

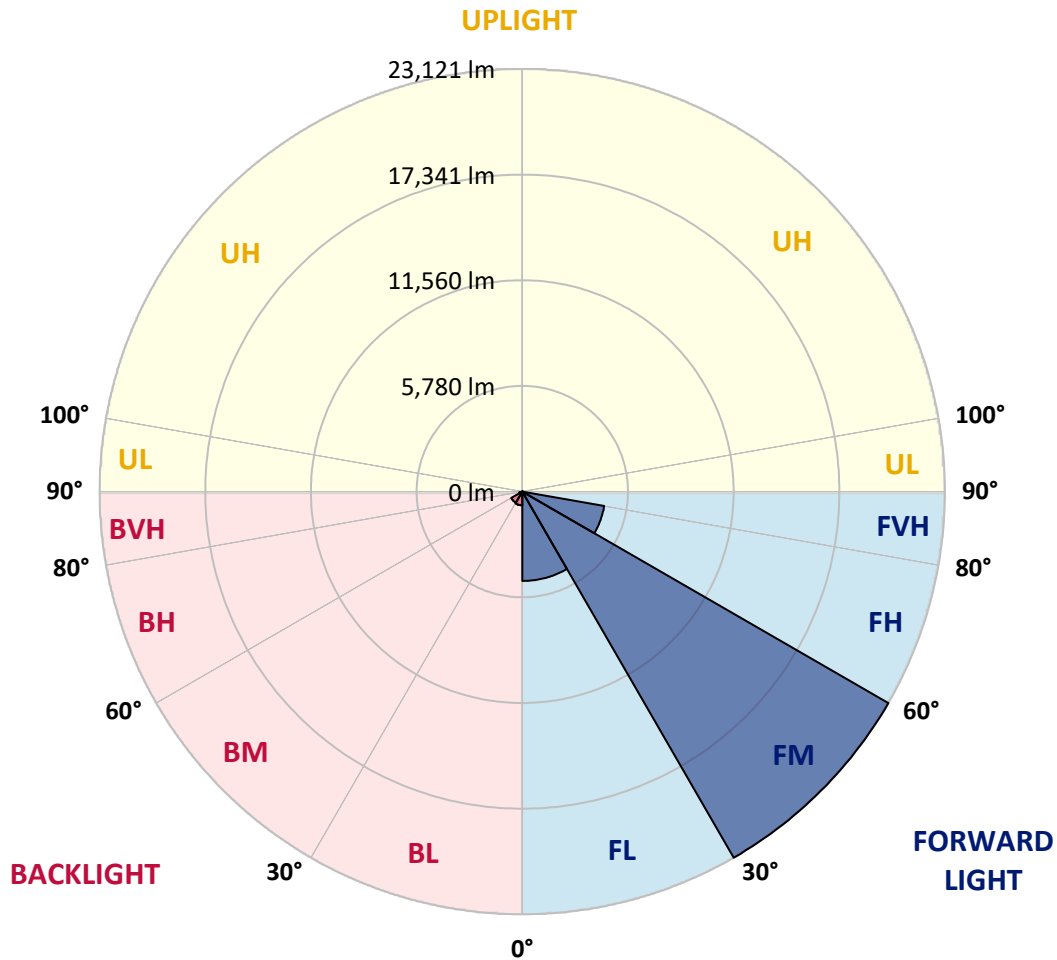


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4886.3	14.3			
FM	(30°-60°)	23120.8	67.5			
FH	(60°-80°)	4549.3	13.3			G2/5000
FVH	(80°-90°)	53.9	0.2			G1/100
BL	(0°-30°)	748.6	2.2	B2/1000		
BM	(30°-60°)	701.5	2.0	B1/1000		
BH	(60°-80°)	162.1	0.5	B1/500		G1/500
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7
2.5°	9664.6	9597.7	9505.3	9433.7	9265.1	9022.6	8766.3	8766.3	8519.2	8175.1	7824.1
5°	11147.2	11103.4	11013.3	10828.6	10639.2	10299.7	9784.7	9694.7	9253.6	8630.1	7974.2
7.5°	11750.0	11770.8	11775.4	11726.9	11636.8	11302.0	10791.6	10729.3	10024.9	9188.9	8170.5
10°	11172.7	11274.3	11373.6	11574.5	11858.5	11939.4	11650.7	11586.0	10893.2	9754.7	8383.0
12.5°	10313.6	10369.0	10424.4	10740.8	11311.2	11964.8	12267.3	12265.0	11678.4	10318.2	8653.1
15°	9914.1	9962.5	9967.2	10108.0	10602.2	11553.7	12530.6	12565.2	12445.1	11013.3	8944.1
17.5°	9997.2	10036.4	10004.1	10038.8	10297.4	11101.1	12500.5	12616.0	13066.3	11680.7	9207.4
20°	10539.9	10616.1	10491.4	10394.4	10472.9	10981.0	12398.9	12560.6	13505.1	12331.9	9447.6
22.5°	11514.4	11556.0	11399.0	11133.4	10994.8	11232.7	12371.2	12530.6	13879.2	12865.4	9586.1
25°	12597.5	12583.7	12410.5	12112.6	11821.6	11740.8	12553.6	12696.8	14188.7	13345.8	9627.7
27.5°	13680.6	13722.2	13431.2	13061.7	12713.0	12502.8	12962.4	13068.6	14537.4	13893.1	9678.5
30°	14939.2	14872.2	14585.9	14163.3	13763.7	13470.5	13620.6	13650.6	15017.7	14618.2	9812.4
32.5°	16576.5	16391.8	16070.8	15331.8	15045.4	14548.9	14585.9	14622.8	15602.0	15336.4	9974.1
35°	18798.1	18788.9	18160.8	17165.4	16468.0	15851.4	15689.7	15719.8	16486.5	16403.3	10332.0
37.5°	21472.4	21509.3	20793.4	19791.2	18507.2	17528.0	17195.4	17200.1	17830.5	17876.7	10877.1
40°	23650.1	23747.1	23319.8	22643.2	21375.4	19844.3	19285.4	19234.6	19719.6	19661.8	11655.3
42.5°	24587.7	24677.7	24837.1	25072.6	24375.2	23112.0	21793.4	21862.6	22010.4	21606.3	12528.2
45°	24128.1	24271.3	24897.1	26352.0	27007.9	26583.0	25010.3	24767.8	24142.0	23719.4	13405.8
47.5°	22213.7	22562.4	23608.5	26031.0	28326.5	29762.9	28640.6	28319.6	26275.8	25262.0	13964.7
50°	19066.0	19086.8	20544.0	23640.8	27643.0	31769.8	32347.1	32106.9	28264.2	26128.0	14246.4
52.5°	13821.5	14276.4	15611.2	19197.7	24682.4	31464.9	34709.6	34610.3	30314.9	26571.4	14652.8
54°	10507.6	10595.3	11782.3	15341.0	21280.7	29790.7	34855.1	34878.2	31333.3	26839.3	14893.0
55°	8613.9	8403.7	9650.8	13068.6	18959.8	28310.4	34379.3	34490.2	31790.6	26977.9	15070.8
57.5°	4082.9	4085.2	5039.0	6893.4	11874.7	21982.7	31471.9	31864.5	31841.4	27215.7	15618.2
60°	2066.9	2080.7	2290.9	3182.3	5865.8	14613.6	26021.8	26957.1	29391.1	27250.4	15798.3
62.5°	1445.7	1429.5	1394.8	1531.1	2468.7	7426.9	19373.2	20186.1	24971.0	25931.7	15225.6
65°	1237.8	1203.2	1106.2	1085.4	1247.1	2958.3	12066.4	13391.9	19066.0	22453.8	13595.2
67.5°	1057.7	1043.8	956.1	903.0	882.2	1288.6	6226.0	6923.4	13031.7	16140.1	10297.4
70°	898.3	891.4	838.3	771.3	713.6	771.3	2309.4	2861.3	7262.9	8690.1	4858.9
72.5°	729.8	736.7	745.9	660.5	600.4	547.3	986.1	1147.7	3039.1	3106.1	1699.7
75°	639.7	632.8	632.8	575.0	501.1	406.4	542.7	584.3	930.7	863.7	394.9
77.5°	450.3	434.2	508.1	473.4	418.0	288.7	309.5	327.9	385.7	330.2	184.7
80°	311.8	311.8	325.6	424.9	376.4	210.2	189.4	203.2	228.6	196.3	106.2
82.5°	175.5	180.1	212.5	226.3	219.4	140.9	124.7	127.0	152.4	133.9	67.0
85°	20.8	34.6	122.4	120.1	90.1	62.4	69.3	71.6	94.7	83.1	39.3
87.5°	2.3	4.6	25.4	32.3	23.1	25.4	25.4	25.4	32.3	36.9	27.7
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°	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7	7604.7
2.5°	7634.7	7459.2	7041.2	6556.3	6246.8	5743.4	5318.4	5011.3	4935.1	4787.3	4831.2
5°	7625.5	7260.6	6408.5	5507.8	4547.1	3831.2	3297.8	2877.5	2692.7	2570.3	2484.9
7.5°	7630.1	7059.7	5692.6	4258.4	3110.7	2408.7	1914.5	1658.1	1487.2	1415.6	1424.9
10°	7644.0	6833.4	4861.2	3154.6	2099.2	1556.5	1254.0	1131.6	1073.8	1064.6	1062.3
12.5°	7676.3	6586.3	4066.8	2341.7	1468.7	1131.6	1016.1	974.5	956.1	956.1	949.1
15°	7710.9	6313.8	3406.3	1741.3	1131.6	972.2	919.1	898.3	886.8	886.8	884.5
17.5°	7710.9	5999.7	2789.7	1351.0	974.5	893.7	852.2	824.4	815.2	815.2	812.9
20°	7662.4	5634.8	2242.4	1087.7	884.5	819.8	778.3	748.2	736.7	732.1	729.8
22.5°	7493.9	5147.5	1785.1	935.3	810.6	755.2	702.0	667.4	658.2	653.5	655.9
25°	7193.6	4597.9	1413.3	822.1	743.6	676.6	630.5	605.1	595.8	595.8	598.1
27.5°	6884.2	4022.9	1120.0	736.7	662.8	602.7	565.8	549.6	547.3	554.2	556.6
30°	6597.8	3445.6	907.6	667.4	591.2	540.4	515.0	510.4	510.4	512.7	515.0
32.5°	6279.1	2939.8	759.8	607.4	533.5	489.6	475.7	475.7	480.3	480.3	485.0
35°	6078.2	2505.6	667.4	549.6	489.6	452.6	443.4	445.7	452.6	461.9	466.5
37.5°	5969.7	2159.2	607.4	503.4	448.0	422.6	413.4	418.0	434.2	450.3	452.6
40°	5978.9	1898.3	558.9	464.2	415.7	388.0	381.0	394.9	411.1	427.2	429.5
42.5°	6080.5	1704.3	512.7	418.0	388.0	348.7	346.4	360.3	367.2	383.4	385.7
45°	6200.6	1563.4	464.2	369.5	337.2	302.5	304.8	316.4	325.6	351.0	355.6
47.5°	6237.6	1466.4	408.8	314.1	277.1	265.6	267.9	274.8	293.3	316.4	318.7
50°	6279.1	1406.4	355.6	265.6	235.6	233.2	235.6	240.2	251.7	261.0	258.6
52.5°	6457.0	1404.1	311.8	230.9	200.9	205.5	207.8	205.5	196.3	182.4	177.8
54°	6623.2	1411.0	291.0	214.8	184.7	191.7	189.4	177.8	154.7	140.9	133.9
55°	6757.2	1417.9	279.4	203.2	175.5	177.8	180.1	157.0	127.0	113.2	108.5
57.5°	7020.4	1401.8	251.7	177.8	154.7	145.5	143.2	103.9	69.3	60.0	55.4
60°	6888.8	1265.5	228.6	152.4	131.6	117.8	97.0	57.7	34.6	25.4	25.4
62.5°	6371.5	1073.8	203.2	124.7	108.5	90.1	50.8	32.3	16.2	9.2	6.9
65°	5699.5	903.0	182.4	99.3	85.4	57.7	27.7	20.8	6.9	0.0	0.0
67.5°	4237.7	669.7	154.7	78.5	64.7	36.9	18.5	11.5	2.3	0.0	0.0
70°	1963.0	408.8	131.6	60.0	46.2	27.7	13.9	6.9	0.0	0.0	0.0
72.5°	563.5	256.3	108.5	43.9	32.3	23.1	11.5	4.6	2.3	0.0	0.0
75°	196.3	205.5	80.8	32.3	25.4	16.2	9.2	4.6	2.3	0.0	0.0
77.5°	117.8	166.3	50.8	27.7	20.8	13.9	9.2	4.6	2.3	2.3	0.0
80°	67.0	110.8	32.3	23.1	18.5	11.5	6.9	4.6	2.3	2.3	0.0
82.5°	36.9	53.1	25.4	20.8	16.2	11.5	6.9	4.6	2.3	2.3	2.3
85°	30.0	27.7	20.8	18.5	13.9	9.2	6.9	2.3	0.0	0.0	0.0
87.5°	23.1	18.5	18.5	18.5	13.9	9.2	6.9	2.3	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)