

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: P454644

Luminaire Tested: **GALN-SA5D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26375 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

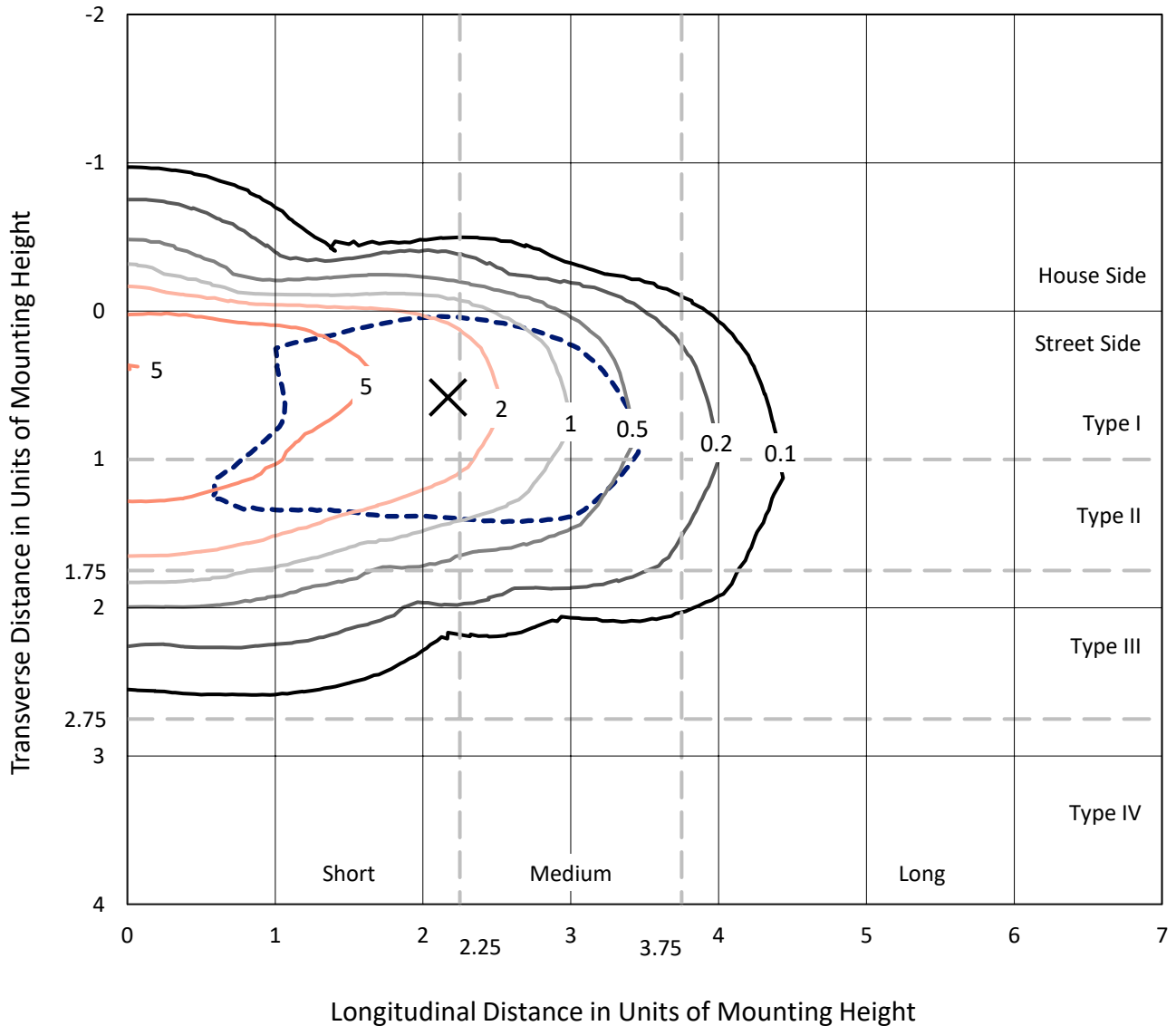
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

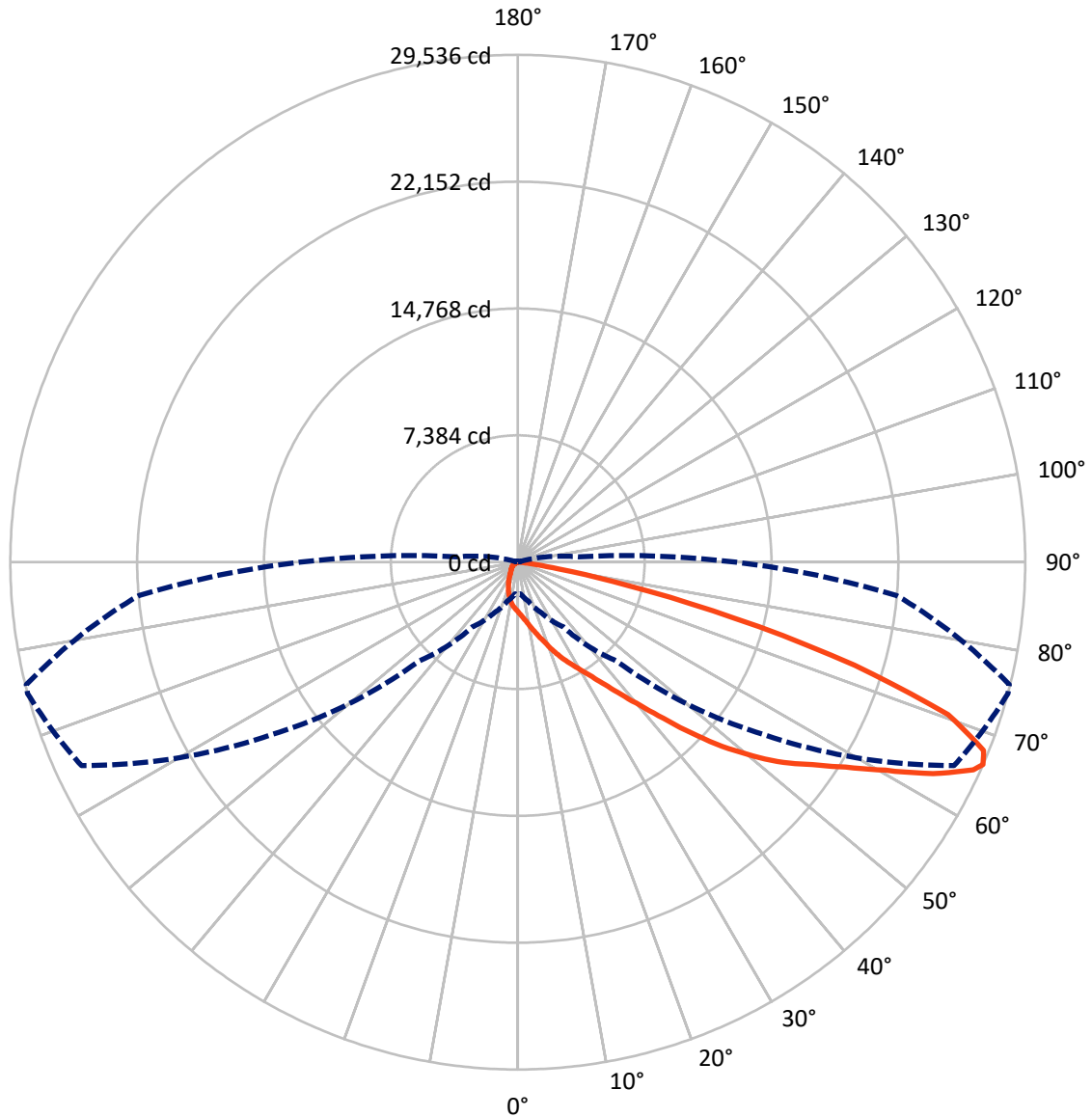
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.3	0.0	1628.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	24746.7	0.0	24746.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	26375.0	0.0	26375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	1.1
10°-20°	818.8	3.1
20°-30°	1413.8	5.4
30°-40°	2550.2	9.7
40°-50°	4607.1	17.5
50°-60°	7182.5	27.2
60°-70°	6823.1	25.9
70°-80°	2557.1	9.7
80°-90°	144.3	0.5
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°	26375.0	100.0
0°-180°	26375.0	100.0

Coefficient of Utilization



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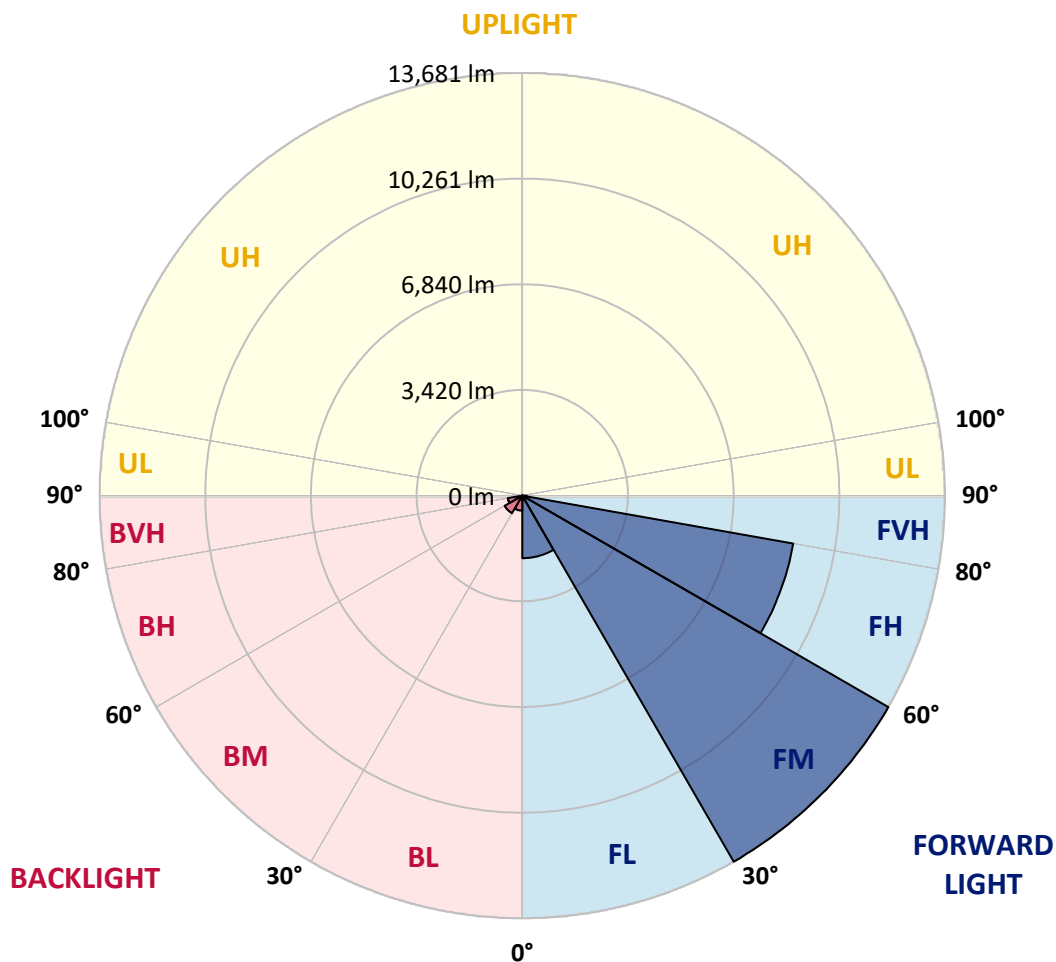
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.5	7.7			
FM	(30°-60°)	13680.7	51.9			
FH	(60°-80°)	8904.7	33.8			G4/12000
FVH	(80°-90°)	136.8	0.5			G2/225
BL	(0°-30°)	486.3	1.8	B1/500		
BM	(30°-60°)	659.1	2.5	B1/1000		
BH	(60°-80°)	475.5	1.8	B1/500		G1/500
BVH	(80°-90°)	7.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4
2.5°	3446.0	3403.1	3416.8	3397.3	3352.4	3286.1	3227.6	3143.7	3059.9	3046.2	2952.6
5°	3900.4	3888.7	3873.1	3816.6	3785.4	3684.0	3563.0	3418.7	3245.2	3214.0	3044.3
7.5°	4210.5	4204.7	4212.5	4183.2	4155.9	4064.2	3935.5	3738.6	3469.4	3451.9	3169.1
10°	4311.9	4327.5	4356.8	4403.6	4446.5	4417.2	4319.7	4074.0	3760.0	3709.3	3311.5
12.5°	4253.4	4271.0	4341.2	4466.0	4604.5	4684.4	4645.4	4466.0	4068.1	4027.2	3471.4
15°	4103.3	4124.7	4224.2	4417.2	4664.9	4891.1	4988.6	4859.9	4427.0	4360.7	3664.5
17.5°	3880.9	3912.1	4054.5	4310.0	4649.3	5039.4	5314.3	5271.4	4809.2	4746.8	3875.1
20°	3713.2	3736.6	3857.5	4150.1	4583.0	5121.3	5624.4	5745.3	5281.2	5173.9	4122.8
22.5°	3824.4	3832.2	3873.1	4048.6	4464.0	5142.7	5897.4	6238.7	5782.4	5686.8	4380.2
25°	4368.5	4290.5	4249.5	4210.5	4438.7	5123.2	6145.1	6753.6	6281.6	6180.2	4635.7
27.5°	5226.6	5191.5	4984.7	4707.8	4655.2	5148.6	6308.9	7241.1	6751.6	6642.4	4885.3
30°	6160.7	6100.3	5973.5	5567.9	5160.3	5328.0	6427.9	7715.0	7307.5	7163.1	5113.5
32.5°	7018.8	7057.8	6868.7	6451.3	5979.4	5710.2	6582.0	8231.9	7945.2	7765.8	5378.7
35°	8019.3	8097.3	7806.7	7406.9	6855.0	6400.6	6882.3	8815.0	8754.5	8528.3	5788.2
37.5°	9035.3	9082.1	8904.7	8343.0	7845.7	7278.2	7447.9	9534.6	9751.1	9558.0	6277.7
40°	9889.5	9953.9	9823.2	9324.0	8793.5	8294.3	8268.9	10318.6	10936.8	10737.9	7007.1
42.5°	10542.9	10591.6	10595.5	10242.5	9764.7	9538.5	9316.2	11319.0	12422.9	12192.7	7853.5
45°	11367.8	11438.0	11397.1	11157.2	10800.3	10759.3	10644.3	12528.2	14201.5	13910.9	8951.5
47.5°	12643.2	12690.0	12588.6	12305.9	11943.1	12007.5	11939.2	13883.6	16015.2	15765.5	10088.5
50°	13528.6	13606.6	13751.0	13864.1	13600.8	13362.9	13160.0	15149.3	17737.2	17512.9	11250.8
52.5°	13518.9	13647.6	14103.9	14673.4	15248.7	15176.6	14593.5	16547.6	19381.2	19104.3	12342.9
55°	12608.1	12857.8	13528.6	14538.8	16132.2	16925.9	16660.7	18166.2	20801.0	20613.8	13608.6
57.5°	10728.1	10880.2	11812.4	13224.4	15638.8	17748.9	19055.5	20360.2	22503.5	22415.8	15574.4
60°	7215.8	7284.1	8483.4	10228.9	13314.1	16927.9	20810.7	23014.5	24600.0	24557.1	17869.8
62.5°	4134.5	4163.7	5033.5	6505.9	9474.1	14345.8	20959.0	26288.9	27113.8	27137.2	20526.0
65°	2225.2	2240.8	2942.9	3818.5	5764.8	10225.0	18846.9	28083.1	29146.0	29190.8	22172.0
66°	1921.0	1846.9	2342.2	3254.9	4586.9	8138.2	17511.0	28018.7	29536.0	29487.2	22113.5
67.5°	1460.7	1527.0	1870.3	2502.1	3399.2	5786.3	14456.9	26772.5	29239.6	29087.4	21214.4
70°	1045.3	1072.6	1332.0	1784.4	2314.9	3174.9	9238.2	22236.3	26575.6	26370.8	18482.2
72.5°	674.8	704.0	943.9	1291.0	1673.3	1733.7	5172.0	16065.9	20489.0	20459.7	13918.7
75°	481.7	509.0	624.1	924.4	1257.9	1072.6	2490.4	10827.6	13025.5	12937.7	8610.2
77.5°	349.1	362.7	417.3	604.6	899.0	768.4	1154.5	5782.4	6484.5	6790.6	3804.9
80°	200.9	212.6	290.6	368.6	608.5	524.6	551.9	2320.8	2392.9	2277.9	1189.6
82.5°	99.5	113.1	173.6	251.6	380.3	353.0	253.5	698.2	737.2	717.7	300.3
85°	23.4	29.3	97.5	165.8	185.3	158.0	122.9	204.8	253.5	247.7	115.1
87.5°	2.0	3.9	35.1	29.3	31.2	52.7	42.9	52.7	81.9	76.1	41.0
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°	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4	2884.4
2.5°	2909.7	2872.7	2765.4	2660.1	2572.3	2480.7	2396.8	2348.1	2328.6	2307.1	2316.9
5°	2950.7	2861.0	2644.5	2457.3	2273.9	2117.9	1993.1	1913.2	1874.2	1868.3	1858.6
7.5°	3005.3	2851.2	2515.8	2223.2	1983.4	1809.8	1667.4	1552.4	1517.3	1486.1	1460.7
10°	3071.6	2833.7	2355.9	1977.5	1722.0	1503.6	1316.4	1179.9	1109.7	1090.2	1103.8
12.5°	3141.8	2800.5	2188.1	1751.3	1456.8	1177.9	1004.4	936.1	916.6	908.8	910.8
15°	3212.0	2759.6	2012.6	1532.9	1160.4	940.0	860.0	842.5	834.7	830.8	826.9
17.5°	3276.4	2693.2	1815.6	1320.3	940.0	803.5	774.2	758.6	743.0	737.2	727.4
20°	3352.4	2617.2	1638.2	1082.4	795.7	727.4	692.3	663.1	639.7	624.1	622.1
22.5°	3424.6	2519.7	1452.9	897.1	725.5	653.3	596.8	565.6	538.3	518.8	524.6
25°	3463.6	2400.7	1287.1	782.0	661.1	579.2	516.8	477.8	448.5	438.8	436.8
27.5°	3463.6	2254.4	1125.3	715.7	602.6	512.9	448.5	411.5	392.0	378.3	380.3
30°	3436.3	2092.6	975.1	665.0	551.9	454.4	393.9	360.8	345.2	335.4	333.5
32.5°	3414.8	1938.5	846.4	616.3	499.3	403.7	351.0	325.7	310.1	300.3	300.3
35°	3448.0	1805.9	746.9	567.5	450.5	364.7	317.9	294.5	278.9	271.1	269.1
37.5°	3535.7	1685.0	670.9	514.9	405.6	331.5	294.5	267.2	251.6	241.8	237.9
40°	3752.2	1616.7	614.3	466.1	362.7	304.2	267.2	241.8	222.3	212.6	210.6
42.5°	4099.4	1618.7	559.7	421.2	329.6	280.8	243.8	214.5	193.1	183.3	181.4
45°	4622.0	1692.8	516.8	378.3	300.3	255.5	218.4	187.2	167.7	158.0	158.0
47.5°	5248.0	1837.1	479.8	341.3	273.0	232.1	193.1	161.9	142.4	134.6	134.6
50°	5926.7	2024.3	442.7	302.3	249.6	206.7	165.8	140.4	124.8	119.0	119.0
52.5°	6619.0	2250.5	405.6	271.1	224.3	179.4	142.4	124.8	111.2	107.3	105.3
55°	7527.8	2539.2	366.6	237.9	197.0	154.1	126.8	109.2	93.6	87.8	85.8
57.5°	8926.1	2974.1	323.7	208.7	161.9	128.7	109.2	91.7	74.1	64.4	62.4
60°	10613.1	3504.5	278.9	183.3	130.7	105.3	87.8	70.2	54.6	42.9	41.0
62.5°	12192.7	3841.9	236.0	154.1	103.4	80.0	62.4	52.7	39.0	27.3	25.4
65°	12890.9	3728.8	195.0	124.8	81.9	56.6	41.0	37.1	23.4	11.7	9.8
66°	12658.8	3561.1	179.4	113.1	74.1	48.8	35.1	31.2	17.6	5.9	5.9
67.5°	11974.3	3165.2	156.0	97.5	64.4	39.0	27.3	23.4	9.8	2.0	0.0
70°	10260.1	2560.6	122.9	72.2	46.8	27.3	15.6	11.7	5.9	0.0	0.0
72.5°	7880.8	1907.3	97.5	54.6	33.2	15.6	7.8	3.9	5.9	0.0	0.0
75°	4828.7	1090.2	76.1	41.0	21.5	9.8	5.9	0.0	5.9	2.0	0.0
77.5°	2143.3	489.5	50.7	27.3	15.6	7.8	3.9	0.0	3.9	2.0	0.0
80°	542.2	159.9	29.3	19.5	11.7	5.9	2.0	0.0	3.9	3.9	2.0
82.5°	148.2	58.5	21.5	15.6	9.8	5.9	2.0	0.0	3.9	3.9	3.9
85°	58.5	27.3	19.5	15.6	11.7	5.9	2.0	0.0	3.9	3.9	3.9
87.5°	27.3	19.5	19.5	17.6	13.7	5.9	2.0	0.0	3.9	2.0	3.9
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)