

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: P459352

Luminaire Tested: **GALN-SA8A-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24885 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

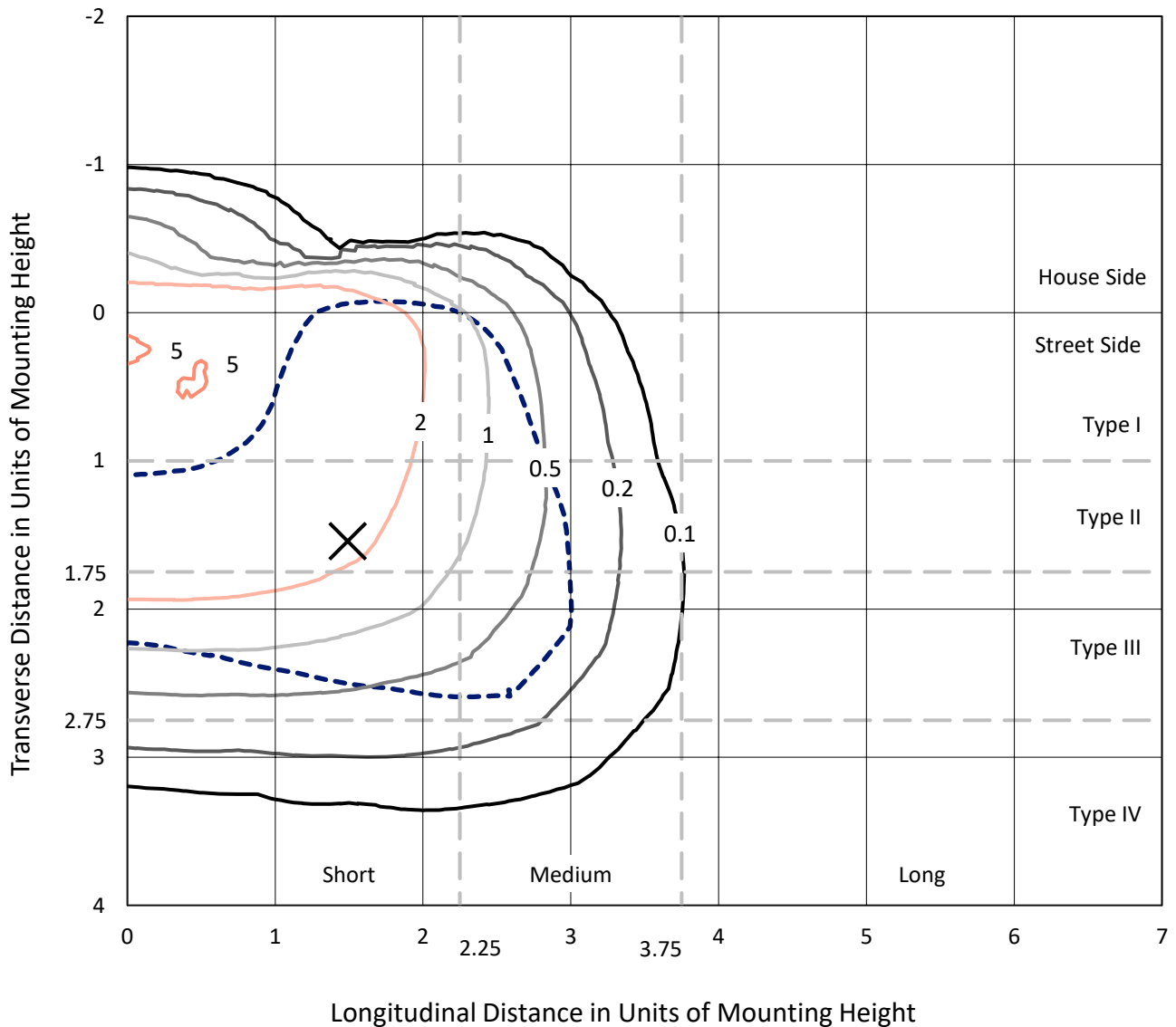
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

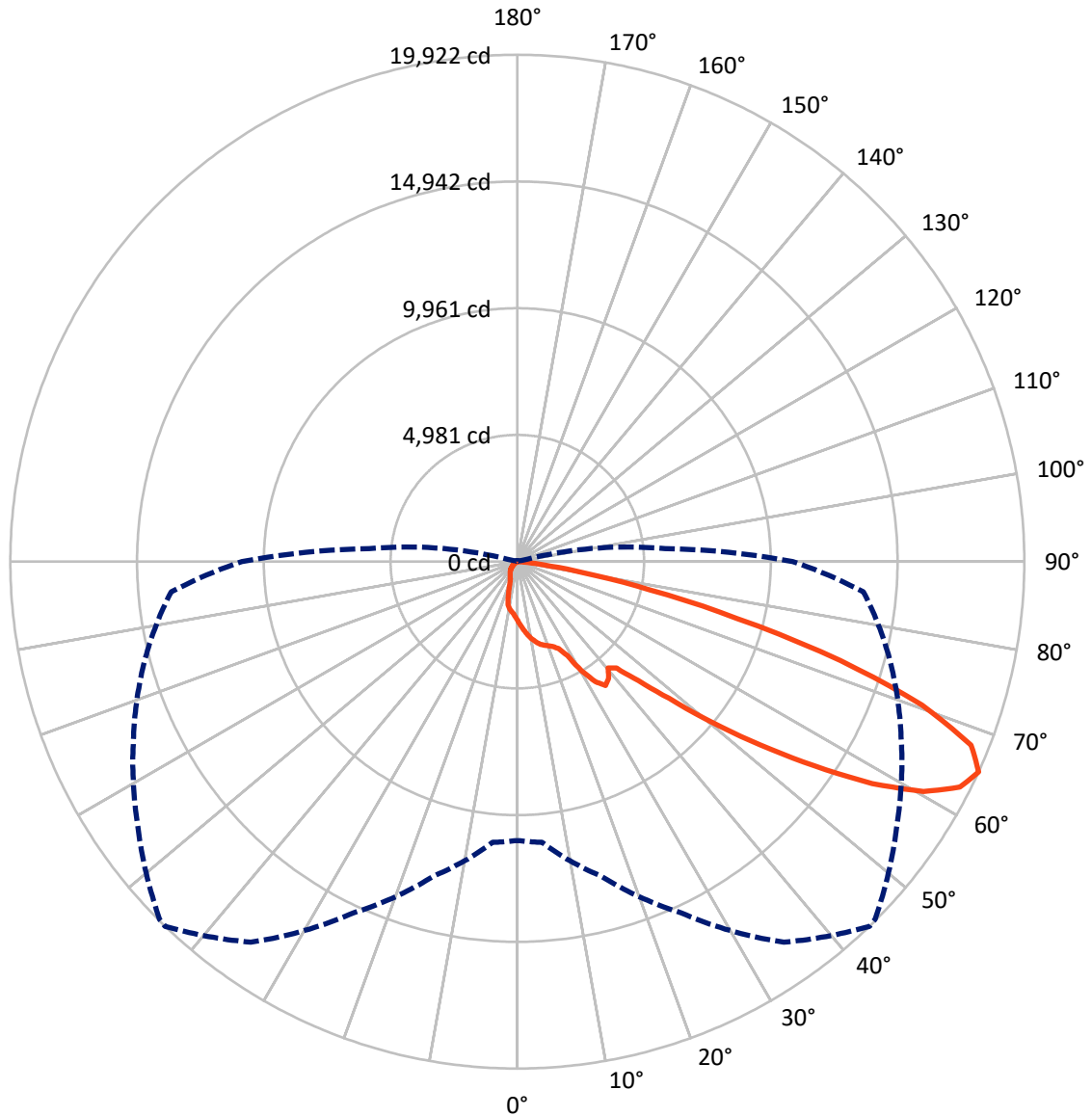
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.8	0.0	2292.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	22592.2	0.0	22592.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	24885.0	0.0	24885.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	0.9
10°-20°	693.3	2.8
20°-30°	1175.6	4.7
30°-40°	1954.6	7.9
40°-50°	3412.8	13.7
50°-60°	6667.3	26.8
60°-70°	7735.7	31.1
70°-80°	2816.9	11.3
80°-90°	198.5	0.8
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°	24885.0	100.0
0°-180°	24885.0	100.0

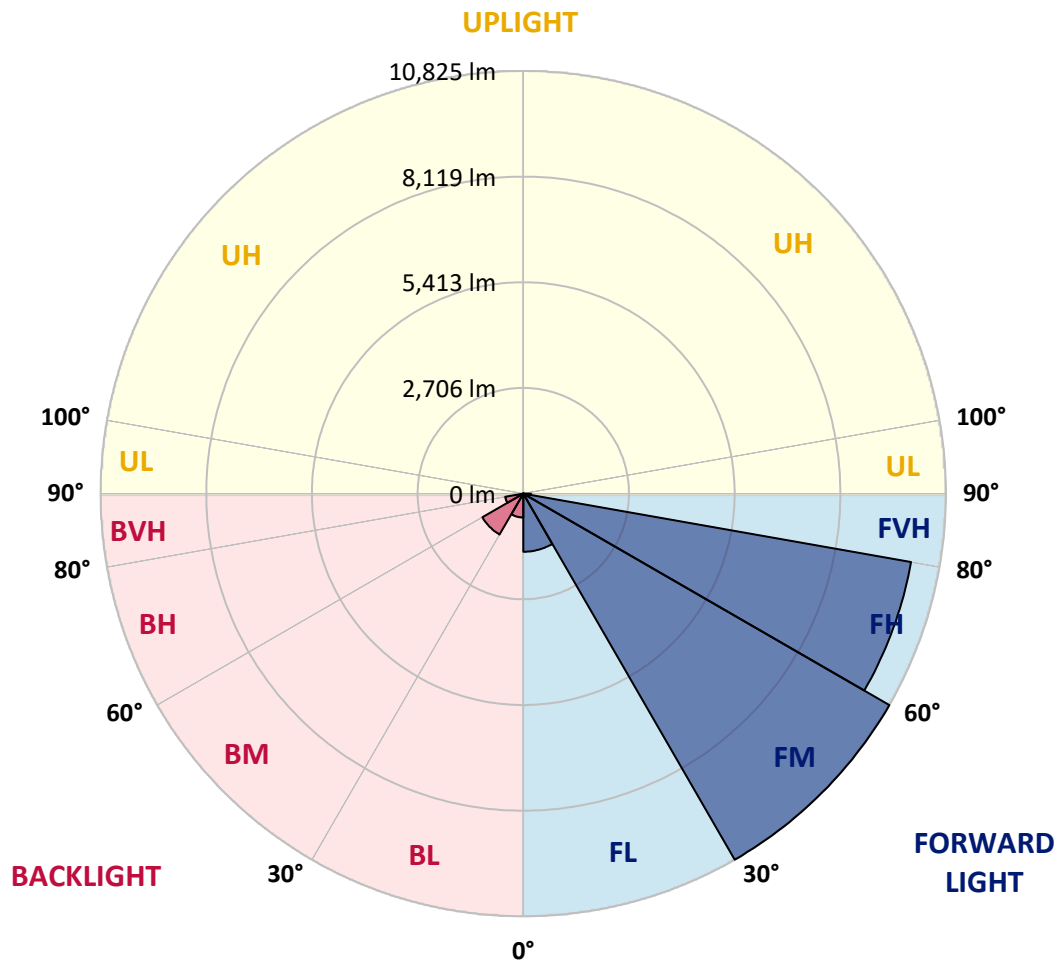


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.3	6.0			
FM (30°-60°)	10825.0	43.5			
FH (60°-80°)	10083.1	40.5			G4/12000
FVH (80°-90°)	195.8	0.8			G2/225
BL (0°-30°)	610.9	2.5	B2/1000		
BM (30°-60°)	1209.7	4.9	B2/2500		
BH (60°-80°)	469.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
2.5°	2607.0	2595.6	2589.9	2559.4	2536.6	2508.1	2508.1	2472.0	2430.1	2384.5	2342.7
5°	2897.9	2878.9	2854.2	2827.6	2774.3	2698.3	2698.3	2622.2	2534.7	2456.8	2371.2
7.5°	3177.4	3160.3	3118.5	3067.2	2979.7	2899.8	2894.1	2783.8	2679.2	2561.3	2439.7
10°	3422.7	3409.4	3373.3	3274.4	3183.1	3078.6	3076.7	2953.1	2831.4	2686.8	2536.6
12.5°	3593.9	3595.8	3548.2	3453.2	3335.3	3236.4	3228.8	3107.1	2979.7	2823.8	2639.3
15°	3715.6	3715.6	3666.1	3559.6	3453.2	3365.7	3358.1	3251.6	3120.4	2951.2	2751.5
17.5°	3749.8	3761.2	3708.0	3612.9	3527.3	3451.3	3449.4	3360.0	3255.4	3091.9	2865.6
20°	3736.5	3747.9	3706.1	3631.9	3573.0	3529.2	3523.5	3487.4	3390.4	3236.4	2987.3
22.5°	3708.0	3719.4	3688.9	3645.2	3616.7	3630.0	3620.5	3650.9	3599.6	3413.2	3131.8
25°	3713.7	3725.1	3702.3	3677.5	3702.3	3784.0	3808.7	3939.9	3894.3	3637.6	3287.7
27.5°	3892.4	3915.2	3882.9	3894.3	3981.8	4171.9	4219.5	4445.8	4244.2	3922.8	3531.1
30°	4289.8	4274.6	4213.8	4268.9	4573.2	4976.3	4963.0	4926.8	4611.2	4251.8	3820.2
32.5°	4651.1	4637.8	4634.0	4871.7	5423.1	5619.0	5609.5	5259.6	4940.1	4628.3	4105.4
35°	4797.5	4746.2	4734.8	5310.9	6233.2	5974.6	5915.6	5396.5	5339.5	5039.0	4396.3
37.5°	5238.7	5202.6	5025.7	5383.2	5909.9	5824.4	5778.7	5632.3	5765.4	5402.2	4725.3
40°	6147.6	6046.8	5887.1	5537.2	5451.7	5487.8	5533.4	5934.6	6269.3	5898.5	5164.5
42.5°	7277.1	7254.3	6957.7	6305.4	5664.6	5714.1	5773.0	6565.9	6993.8	6645.8	5881.4
45°	8632.9	8665.2	8237.4	7467.3	6626.8	6668.6	6754.2	7497.7	7975.0	7807.6	7009.0
47.5°	9865.1	9840.4	9695.9	8895.3	8119.5	8026.3	8165.1	8693.7	9332.7	9359.3	8408.5
50°	11104.9	11236.1	11021.2	10707.5	10131.3	9935.4	9884.1	10142.7	11116.3	10988.9	10089.5
52.5°	12886.6	12955.1	12551.9	12472.1	12603.3	11968.2	11916.8	11979.6	12850.5	12413.1	11348.3
55°	14006.6	13966.7	13816.4	14440.1	14959.3	14166.3	14101.7	13848.8	14289.9	13419.0	12559.5
57.5°	14360.3	14417.3	14767.2	15894.8	17123.2	16450.0	16332.2	15613.4	15328.2	14356.5	13673.8
60°	14202.5	14307.0	15061.9	16739.1	18442.8	18342.1	18241.3	17033.8	16073.5	15139.9	14455.4
62.5°	13078.7	13225.1	14432.5	16588.9	18889.7	19519.1	19393.6	17919.9	16569.8	15520.2	14592.3
65°	10960.4	11068.7	12802.9	15225.5	18254.6	19922.2	19876.6	18197.5	16647.8	15172.2	13654.8
67.5°	7813.3	8182.2	9789.0	12831.5	16375.9	19233.9	19311.8	17864.8	15915.7	13668.1	11308.3
70°	4911.6	5162.6	6314.9	9186.2	13128.1	16874.1	17130.8	16341.7	13812.6	10654.2	7570.0
72.5°	2342.7	2529.0	3350.5	5814.8	9266.1	13276.4	13479.9	13415.2	10680.8	6712.4	3905.7
75°	1043.9	1114.3	1599.2	2968.3	5982.2	8923.8	9450.6	9538.0	6674.3	3283.9	1519.3
77.5°	532.4	534.3	749.2	1437.5	2987.3	5324.3	5428.8	5735.0	3618.6	1447.1	528.6
80°	283.3	302.3	397.4	678.8	1549.7	2622.2	2608.9	2867.5	1604.9	709.3	176.8
82.5°	127.4	140.7	224.4	355.6	756.8	994.5	1072.5	1173.2	688.4	452.6	78.0
85°	38.0	45.6	110.3	178.7	273.8	287.1	321.4	414.5	389.8	321.4	39.9
87.5°	5.7	5.7	45.6	49.4	39.9	51.3	53.2	58.9	125.5	117.9	20.9
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°	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1	2316.1
2.5°	2319.9	2306.5	2259.0	2219.1	2184.8	2163.9	2139.2	2124.0	2116.4	2110.7	2112.6
5°	2329.4	2297.0	2215.3	2150.6	2101.2	2047.9	2011.8	1990.9	1981.4	1966.2	1966.2
7.5°	2382.6	2331.3	2217.2	2118.3	2032.7	1960.5	1892.0	1867.3	1850.2	1846.4	1842.6
10°	2458.7	2394.0	2238.1	2101.2	1979.5	1880.6	1783.6	1698.1	1631.5	1591.6	1585.9
12.5°	2553.7	2460.6	2270.4	2089.8	1933.8	1758.9	1502.2	1329.2	1213.2	1177.0	1182.7
15°	2641.2	2540.4	2302.7	2080.3	1850.2	1458.5	1167.5	969.8	910.8	905.1	907.0
17.5°	2745.8	2626.0	2340.8	2067.0	1620.1	1114.3	867.1	813.9	825.3	844.3	842.4
20°	2854.2	2717.3	2386.4	1987.1	1293.0	838.6	766.3	772.0	789.1	806.2	810.0
22.5°	2970.2	2821.9	2439.7	1795.0	986.9	730.2	726.4	734.0	751.1	770.1	773.9
25°	3129.9	2953.1	2479.6	1544.0	747.3	675.0	682.6	696.0	711.2	732.1	735.9
27.5°	3335.3	3129.9	2500.5	1217.0	646.5	625.6	627.5	646.5	665.5	684.5	684.5
30°	3601.5	3341.0	2458.7	920.3	597.1	578.1	570.5	581.9	606.6	625.6	627.5
32.5°	3839.2	3540.6	2348.4	703.6	560.9	534.3	515.3	517.2	526.7	538.1	540.0
35°	4076.9	3734.6	2160.1	591.4	522.9	492.5	464.0	448.8	441.2	435.4	441.2
37.5°	4381.1	3976.1	1909.1	538.1	490.6	452.6	412.6	380.3	353.7	336.6	340.4
40°	4772.8	4310.7	1612.5	503.9	460.2	414.5	361.3	319.5	273.8	258.6	251.0
42.5°	5419.3	4818.5	1300.6	475.4	429.7	374.6	308.0	251.0	209.2	194.0	197.8
45°	6440.4	5459.3	1002.1	445.0	399.3	330.9	258.6	197.8	163.5	155.9	159.7
47.5°	7794.3	6288.3	772.0	410.7	361.3	283.3	203.5	155.9	135.0	133.1	131.2
50°	9068.3	7060.3	644.6	372.7	315.7	235.8	167.3	131.2	117.9	116.0	116.0
52.5°	10220.7	7613.7	524.8	329.0	266.2	194.0	140.7	116.0	104.6	98.9	98.9
55°	11245.6	7975.0	425.9	275.7	209.2	154.0	121.7	104.6	91.3	83.7	81.8
57.5°	12019.5	8018.7	319.5	220.6	155.9	119.8	104.6	91.3	76.1	66.6	62.8
60°	12350.4	7640.3	235.8	167.3	116.0	95.1	83.7	74.2	57.0	47.5	45.6
62.5°	12017.6	6904.4	174.9	127.4	89.4	70.4	58.9	55.1	39.9	28.5	26.6
65°	10825.4	5841.5	138.8	97.0	66.6	51.3	38.0	36.1	24.7	13.3	11.4
67.5°	8672.8	4575.1	110.3	72.3	47.5	34.2	24.7	22.8	13.3	3.8	3.8
70°	5639.9	2924.5	89.4	53.2	30.4	22.8	15.2	11.4	7.6	1.9	0.0
72.5°	2789.5	1367.2	72.3	41.8	20.9	11.4	5.7	3.8	5.7	0.0	0.0
75°	1082.0	486.8	53.2	28.5	11.4	5.7	3.8	0.0	1.9	0.0	0.0
77.5°	359.4	161.6	32.3	15.2	7.6	3.8	0.0	0.0	0.0	0.0	0.0
80°	133.1	62.8	17.1	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	53.2	24.7	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.6	15.2	7.6	5.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	11.4	7.6	5.7	3.8	1.9	0.0	0.0	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)