

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: P652531

Luminaire Tested: **GALN-SA7B-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652531
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-SA7B-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 24112.3 lumens
Efficiency: N/A
Efficacy: 84.3 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

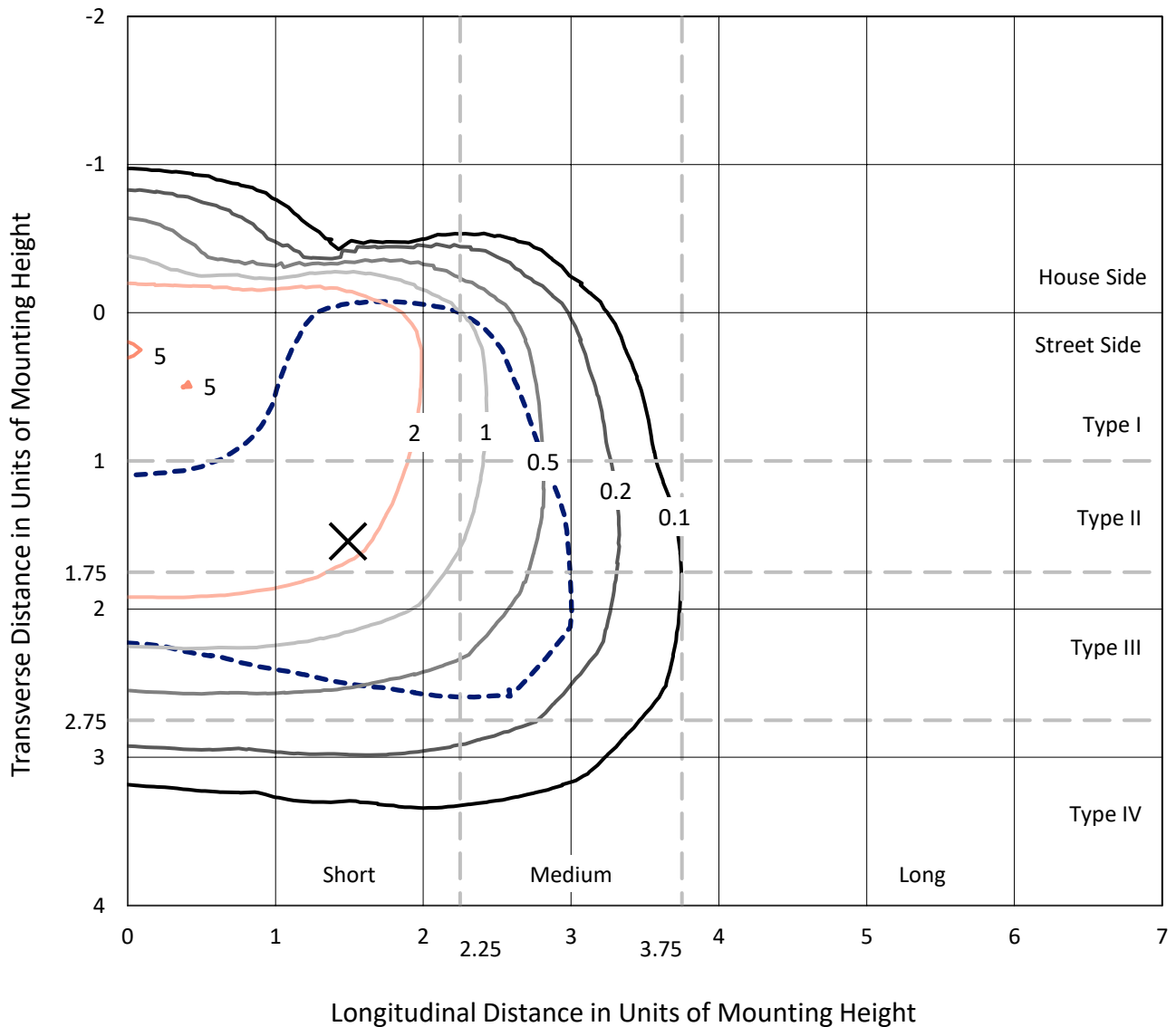
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

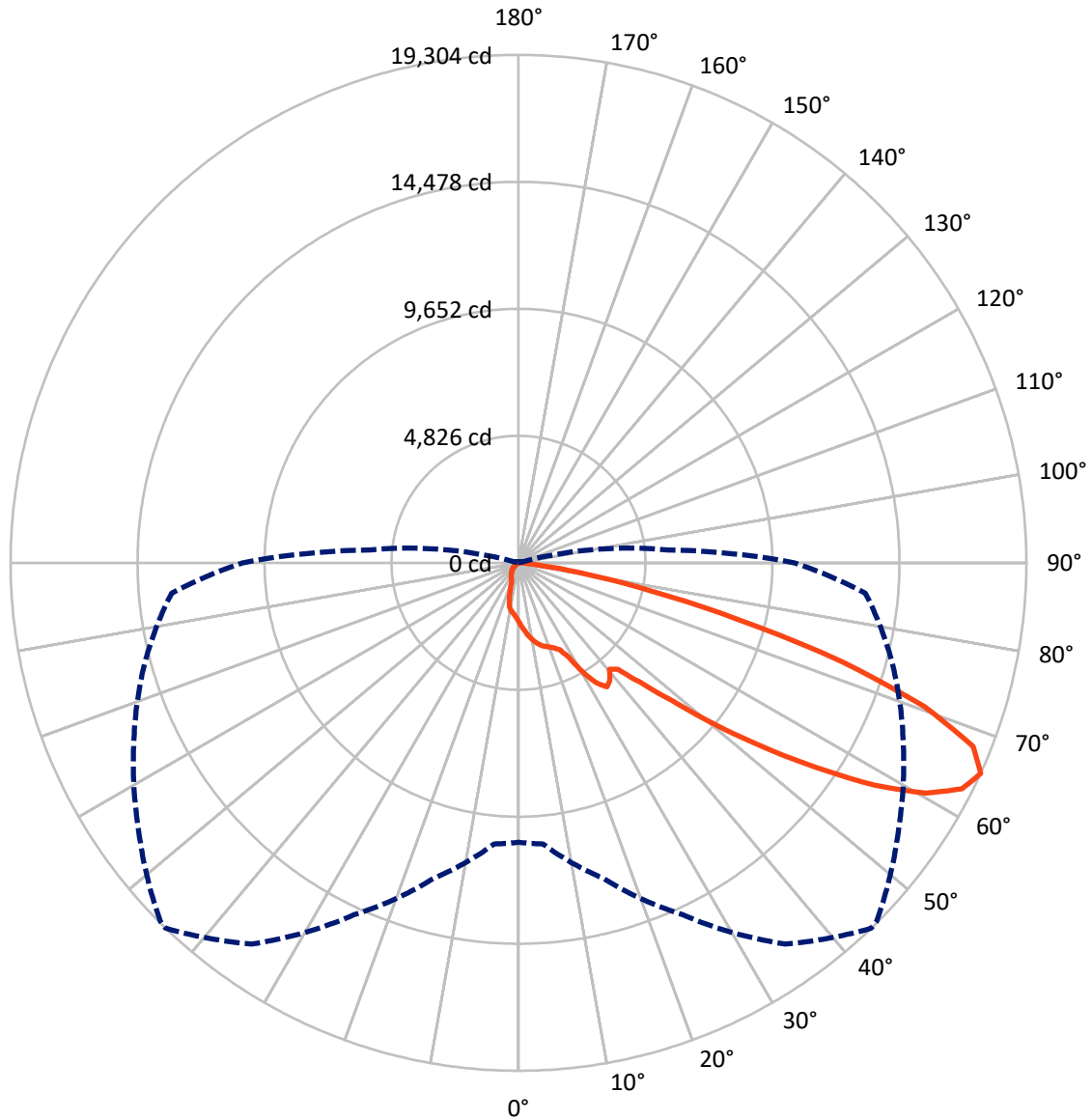
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2221.6	0.0	2221.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	21890.7	0.0	21890.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	24112.3	0.0	24112.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	0.9
10°-20°	671.8	2.8
20°-30°	1139.1	4.7
30°-40°	1893.9	7.9
40°-50°	3306.8	13.7
50°-60°	6460.3	26.8
60°-70°	7495.5	31.1
70°-80°	2729.5	11.3
80°-90°	192.3	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°	24112.3	100.0
0°-180°	24112.3	100.0

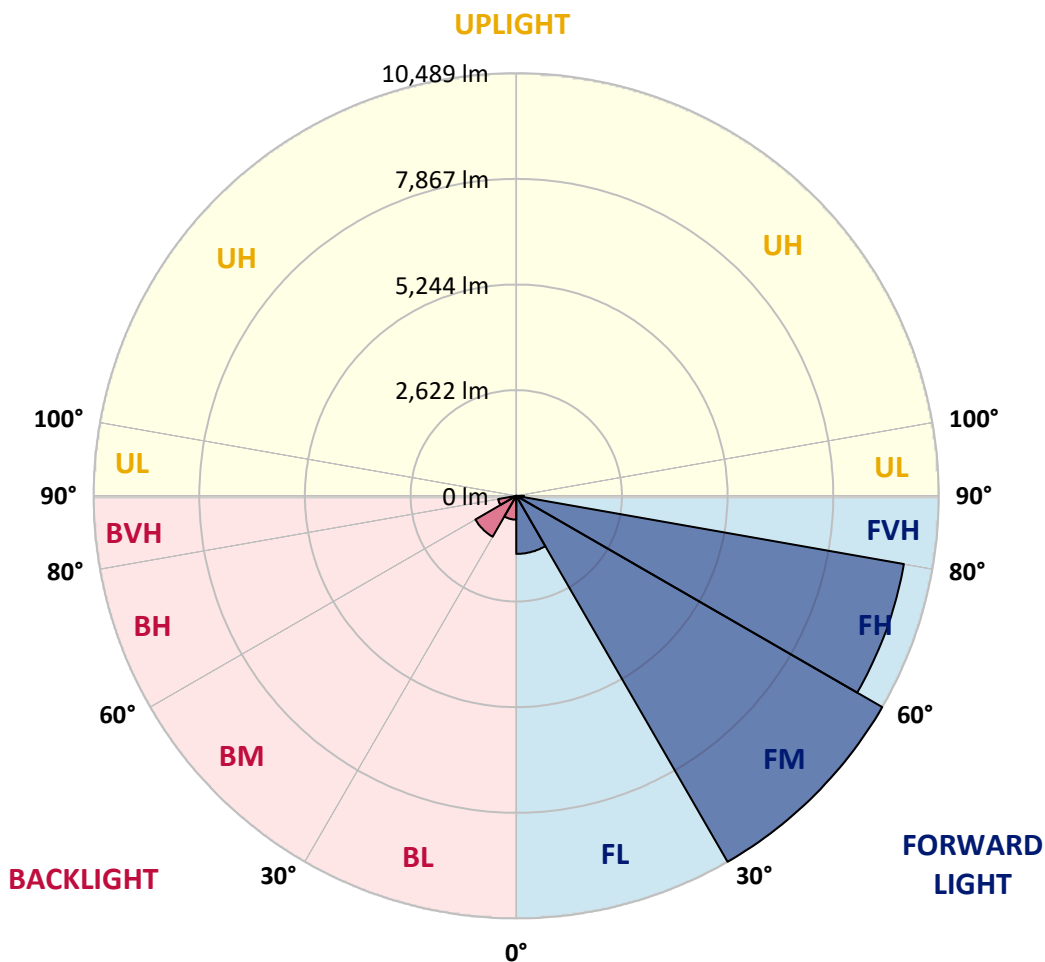


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.1	6.0			
FM (30°-60°)	10488.9	43.5			
FH (60°-80°)	9770.0	40.5			G4/12000
FVH (80°-90°)	189.7	0.8			G2/225
BL (0°-30°)	591.9	2.5	B2/1000		
BM (30°-60°)	1172.1	4.9	B2/2500		
BH (60°-80°)	455.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1
2.5°	2526.0	2515.0	2509.5	2479.9	2457.8	2430.2	2430.2	2395.3	2354.7	2310.5	2269.9
5°	2807.9	2789.5	2765.5	2739.7	2688.2	2614.5	2614.5	2540.7	2456.1	2380.5	2297.5
7.5°	3078.8	3062.2	3021.6	2971.9	2887.2	2809.8	2804.2	2697.4	2596.1	2481.8	2363.9
10°	3316.5	3303.5	3268.5	3172.8	3084.3	2982.9	2981.1	2861.3	2743.4	2603.4	2457.8
12.5°	3482.2	3484.1	3438.1	3345.9	3231.7	3135.9	3128.5	3010.6	2887.2	2736.1	2557.4
15°	3600.2	3600.2	3552.3	3449.1	3345.9	3261.1	3253.8	3150.6	3023.5	2859.5	2666.1
17.5°	3633.4	3644.4	3592.8	3500.7	3417.8	3344.1	3342.2	3255.7	3154.3	2995.9	2776.6
20°	3620.5	3631.5	3591.0	3519.2	3462.0	3419.7	3414.1	3379.1	3285.1	3135.9	2894.6
22.5°	3592.8	3603.9	3574.4	3532.0	3504.4	3517.3	3508.1	3537.6	3487.8	3307.2	3034.6
25°	3598.4	3609.4	3587.3	3563.3	3587.3	3666.5	3690.5	3817.6	3773.4	3524.6	3185.6
27.5°	3771.5	3793.7	3762.3	3773.4	3858.2	4042.4	4088.4	4307.7	4112.4	3801.1	3421.4
30°	4156.6	4141.9	4083.0	4136.4	4431.1	4821.8	4808.8	4773.9	4468.0	4119.8	3701.6
32.5°	4506.7	4493.8	4490.1	4720.4	5254.7	5444.5	5435.3	5096.3	4786.7	4484.5	3977.9
35°	4648.5	4598.8	4587.7	5146.1	6039.6	5789.0	5731.9	5228.9	5173.7	4882.6	4259.8
37.5°	5076.0	5041.0	4869.6	5216.1	5726.5	5643.5	5599.3	5457.4	5586.4	5234.5	4578.6
40°	5956.7	5859.1	5704.3	5365.3	5282.4	5317.4	5361.6	5750.3	6074.6	5715.4	5004.2
42.5°	7051.2	7029.1	6741.6	6109.6	5488.7	5536.6	5593.7	6362.1	6776.6	6439.5	5698.8
45°	8364.8	8396.2	7981.6	7235.4	6421.0	6461.6	6544.5	7264.9	7727.4	7565.2	6791.4
47.5°	9558.8	9534.8	9394.8	8619.1	7867.4	7777.1	7911.6	8423.8	9042.9	9068.7	8147.4
50°	10760.1	10887.2	10679.0	10375.0	9816.7	9626.9	9577.2	9827.8	10771.1	10647.6	9776.2
52.5°	12486.5	12552.8	12162.2	12084.8	12211.9	11596.5	11546.8	11607.6	12451.4	12027.7	10995.9
55°	13571.7	13533.0	13387.5	13991.8	14494.8	13726.5	13663.8	13418.7	13846.2	13002.4	12169.5
57.5°	13914.3	13969.7	14308.7	15401.2	16591.5	15939.3	15825.0	15128.6	14852.2	13910.7	13249.3
60°	13761.5	13862.8	14594.3	16219.4	17870.2	17772.5	17674.9	16504.9	15574.5	14669.8	14006.5
62.5°	12672.5	12814.4	13984.4	16073.8	18303.2	18913.0	18791.4	17363.5	16055.4	15038.3	14139.1
65°	10620.1	10725.0	12405.4	14752.7	17687.7	19303.6	19259.4	17632.5	16130.9	14701.1	13230.9
67.5°	7570.8	7928.2	9485.1	12433.0	15867.4	18636.6	18712.2	17310.1	15421.5	13243.7	10957.2
70°	4759.1	5002.4	6118.9	8901.0	12720.5	16350.1	16598.9	15834.3	13383.8	10323.4	7334.9
72.5°	2269.9	2450.5	3246.4	5634.3	8978.4	12864.2	13061.3	12998.7	10349.2	6504.0	3784.4
75°	1011.6	1079.7	1549.5	2876.1	5796.4	8646.7	9157.1	9241.8	6467.1	3181.9	1472.2
77.5°	515.9	517.7	726.0	1392.9	2894.6	5158.9	5260.3	5556.9	3506.2	1402.1	512.2
80°	274.5	292.9	385.1	657.7	1501.6	2540.7	2527.9	2778.5	1555.0	687.3	171.3
82.5°	123.5	136.3	217.4	344.6	733.3	963.6	1039.1	1136.8	667.0	438.5	75.5
85°	36.8	44.2	106.9	173.2	265.3	278.2	311.3	401.7	377.7	311.3	38.7
87.5°	5.6	5.6	44.2	47.9	38.7	49.8	51.6	57.1	121.6	114.2	20.3
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°	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1	2244.1
2.5°	2247.8	2235.0	2188.9	2150.2	2117.0	2096.7	2072.8	2058.0	2050.7	2045.1	2047.0
5°	2257.1	2225.7	2146.5	2083.8	2036.0	1984.3	1949.4	1929.1	1919.8	1905.1	1905.1
7.5°	2308.6	2258.8	2148.3	2052.5	1969.6	1899.6	1833.3	1809.3	1792.8	1789.1	1785.4
10°	2382.3	2319.6	2168.6	2036.0	1918.0	1822.2	1728.3	1645.3	1580.8	1542.1	1536.6
12.5°	2474.5	2384.2	2199.9	2024.9	1873.8	1704.3	1455.5	1287.9	1175.5	1140.5	1146.0
15°	2559.2	2461.5	2231.3	2015.7	1792.8	1413.2	1131.3	939.6	882.5	877.0	878.8
17.5°	2660.5	2544.4	2268.1	2002.8	1569.8	1079.7	840.2	788.6	799.6	818.0	816.2
20°	2765.5	2632.9	2312.3	1925.4	1252.9	812.6	742.5	748.1	764.6	781.2	784.9
22.5°	2878.0	2734.3	2363.9	1739.3	956.2	707.5	703.8	711.2	727.8	746.2	749.9
25°	3032.7	2861.3	2402.6	1496.1	724.1	654.0	661.4	674.3	689.1	709.4	713.0
27.5°	3231.7	3032.7	2422.8	1179.2	626.5	606.2	608.0	626.5	644.9	663.3	663.3
30°	3489.6	3237.3	2382.3	891.8	578.5	560.1	552.7	563.8	587.8	606.2	608.0
32.5°	3720.0	3430.7	2275.5	681.7	543.5	517.7	499.3	501.2	510.4	521.4	523.3
35°	3950.3	3618.7	2093.1	573.0	506.7	477.2	449.6	434.8	427.5	421.9	427.5
37.5°	4245.0	3852.6	1849.9	521.4	475.3	438.5	399.8	368.5	342.7	326.1	329.8
40°	4624.7	4176.9	1562.4	488.3	445.9	401.7	350.1	309.6	265.3	250.6	243.2
42.5°	5251.0	4668.8	1260.2	460.6	416.4	363.0	298.5	243.2	202.7	188.0	191.6
45°	6240.5	5289.7	971.0	431.2	386.9	320.6	250.6	191.6	158.4	151.0	154.7
47.5°	7552.3	6093.0	748.1	398.0	350.1	274.5	197.1	151.0	130.8	129.0	127.2
50°	8786.8	6841.1	624.6	361.1	305.9	228.5	162.1	127.2	114.2	112.4	112.4
52.5°	9903.3	7377.3	508.6	318.7	257.9	188.0	136.3	112.4	101.3	95.8	95.8
55°	10896.4	7727.4	412.7	267.2	202.7	149.3	117.9	101.3	88.5	81.1	79.2
57.5°	11646.3	7769.7	309.6	213.7	151.0	116.1	101.3	88.5	73.7	64.5	60.8
60°	11966.9	7403.1	228.5	162.1	112.4	92.1	81.1	71.8	55.3	46.1	44.2
62.5°	11644.5	6690.1	169.5	123.5	86.6	68.2	57.1	53.4	38.7	27.7	25.8
65°	10489.2	5660.1	134.5	93.9	64.5	49.8	36.8	35.0	24.0	12.9	11.0
67.5°	8403.5	4433.0	106.9	70.1	46.1	33.1	24.0	22.1	12.9	3.7	3.7
70°	5464.8	2833.7	86.6	51.6	29.5	22.1	14.7	11.0	7.4	1.9	0.0
72.5°	2702.9	1324.7	70.1	40.5	20.3	11.0	5.6	3.7	5.6	0.0	0.0
75°	1048.4	471.6	51.6	27.7	11.0	5.6	3.7	0.0	1.9	0.0	0.0
77.5°	348.3	156.6	31.3	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0
80°	129.0	60.8	16.6	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	51.6	24.0	11.0	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	14.7	7.4	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	11.0	7.4	5.6	3.7	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)