

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: P457438

Luminaire Tested: **GALN-SA8D-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457438
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-SA8D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 41155 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

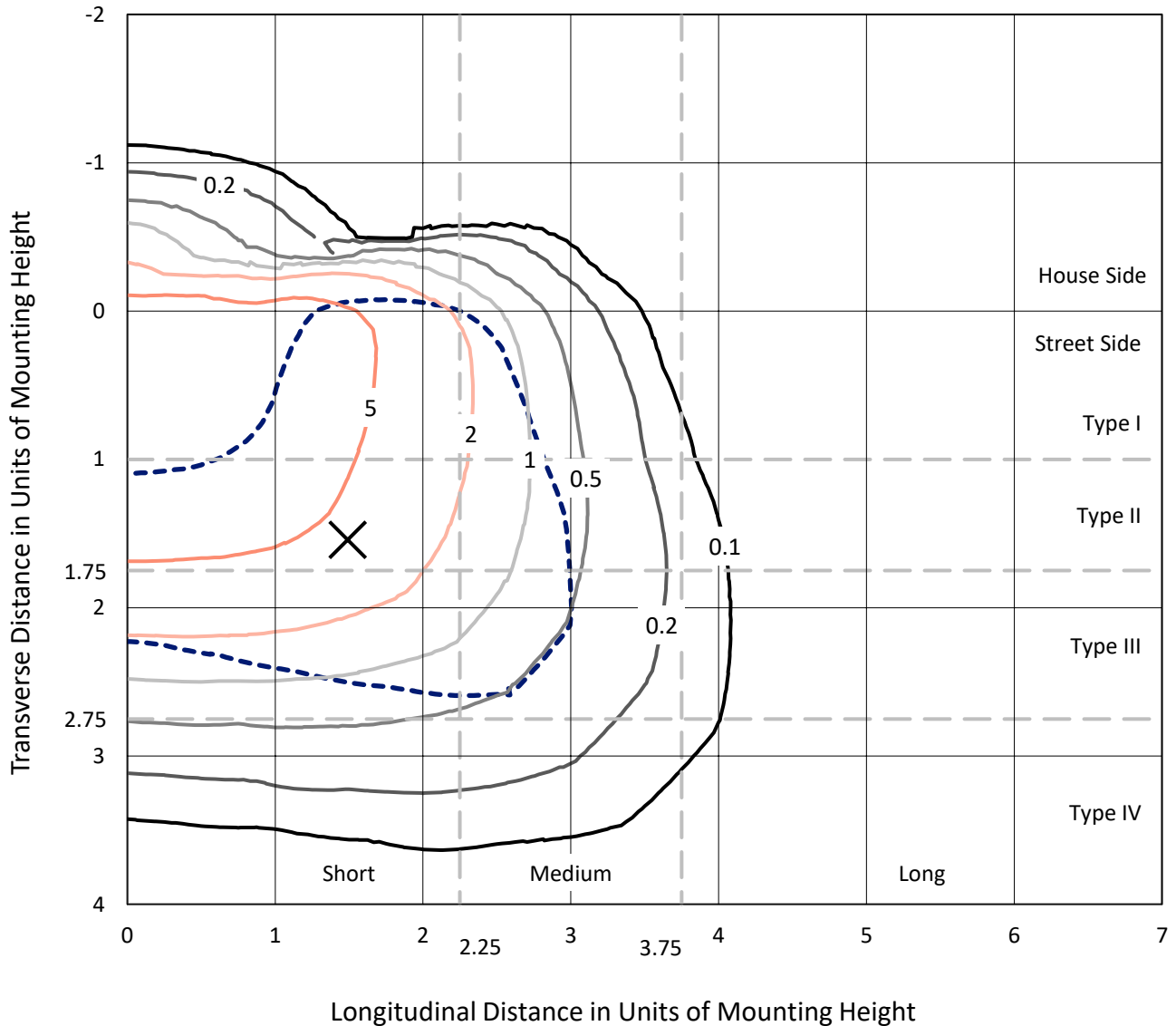
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

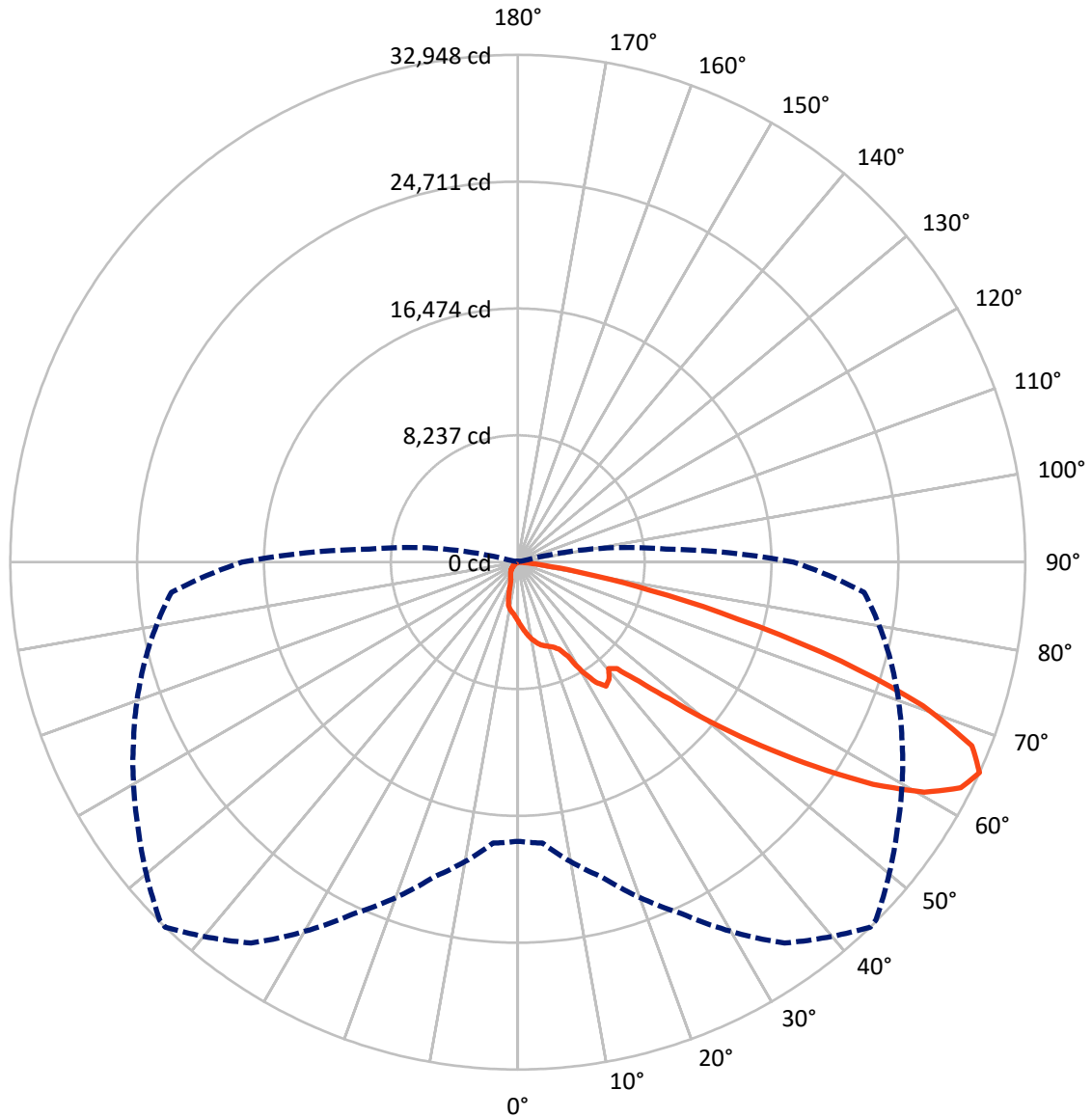
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	3791.8	0.0	3791.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	37363.2	0.0	37363.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	41155.0	0.0	41155.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.0	0.9
10°-20°	1146.6	2.8
20°-30°	1944.2	4.7
30°-40°	3232.5	7.9
40°-50°	5644.1	13.7
50°-60°	11026.5	26.8
60°-70°	12793.3	31.1
70°-80°	4658.7	11.3
80°-90°	328.3	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°	41155.0	100.0
0°-180°	41155.0	100.0

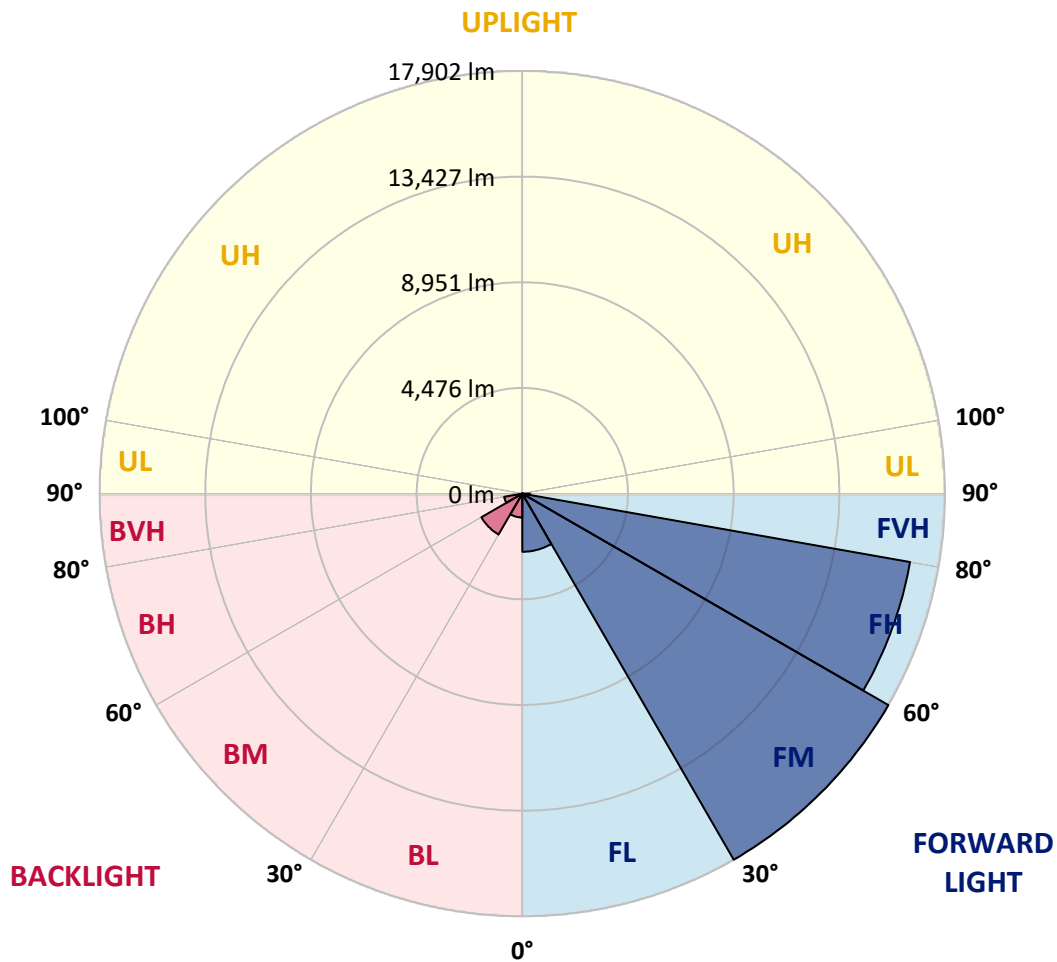


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.4	6.0			
FM (30°-60°)	17902.5	43.5			
FH (60°-80°)	16675.5	40.5			G5
FVH (80°-90°)	323.8	0.8			G3/500
BL (0°-30°)	1010.3	2.5	B3/2500		
BM (30°-60°)	2000.6	4.9	B2/2500		
BH (60°-80°)	776.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3
2.5°	4311.4	4292.6	4283.1	4232.8	4195.1	4147.9	4147.9	4088.2	4019.0	3943.5	3874.3
5°	4792.6	4761.1	4720.3	4676.2	4588.2	4462.4	4462.4	4336.6	4191.9	4063.0	3921.5
7.5°	5254.9	5226.6	5157.4	5072.5	4927.8	4795.7	4786.3	4603.9	4431.0	4236.0	4034.7
10°	5660.5	5638.5	5578.8	5415.3	5264.3	5091.3	5088.2	4883.8	4682.5	4443.5	4195.1
12.5°	5943.6	5946.7	5868.1	5710.9	5515.9	5352.4	5339.8	5138.5	4927.8	4670.0	4364.9
15°	6144.8	6144.8	6063.1	5887.0	5710.9	5566.2	5553.6	5377.5	5160.5	4880.6	4550.5
17.5°	6201.4	6220.3	6132.3	5975.0	5833.5	5707.7	5704.6	5556.8	5383.8	5113.4	4739.1
20°	6179.4	6198.3	6129.1	6006.5	5909.0	5836.7	5827.2	5767.5	5607.1	5352.4	4940.4
22.5°	6132.3	6151.1	6100.8	6028.5	5981.3	6003.3	5987.6	6037.9	5953.0	5644.8	5179.4
25°	6141.7	6160.6	6122.8	6081.9	6122.8	6258.0	6298.9	6515.9	6440.4	6015.9	5437.3
27.5°	6437.3	6475.0	6421.6	6440.4	6585.1	6899.6	6978.2	7352.4	7019.1	6487.6	5839.8
30°	7094.6	7069.4	6968.8	7060.0	7563.1	8229.8	8207.8	8148.0	7626.0	7031.7	6317.8
32.5°	7692.1	7670.0	7663.8	8056.8	8968.8	9292.7	9277.0	8698.4	8170.1	7654.3	6789.5
35°	7934.2	7849.3	7830.4	8783.3	10308.5	9880.8	9783.3	8924.8	8830.5	8333.6	7270.7
37.5°	8663.8	8604.0	8311.6	8902.8	9773.9	9632.4	9556.9	9314.7	9534.9	8934.2	7814.7
40°	10167.0	10000.3	9736.1	9157.5	9016.0	9075.7	9151.2	9814.8	10368.2	9755.0	8541.1
42.5°	12035.0	11997.2	11506.6	10428.0	9368.2	9450.0	9547.5	10858.8	11566.4	10990.9	9726.7
45°	14277.2	14330.6	13623.0	12349.4	10959.4	11028.6	11170.1	12399.7	13189.1	12912.3	11591.5
47.5°	16315.0	16274.1	16035.1	14711.1	13428.1	13274.0	13503.5	14377.8	15434.4	15478.5	13906.1
50°	18365.3	18582.3	18227.0	17708.1	16755.2	16431.3	16346.4	16774.1	18384.2	18173.5	16686.0
52.5°	21312.0	21425.2	20758.5	20626.4	20843.4	19793.0	19708.1	19811.9	21252.2	20528.9	18767.9
55°	23164.2	23098.2	22849.7	23881.2	24739.7	23428.4	23321.5	22903.2	23632.8	22192.5	20771.1
57.5°	23749.1	23843.5	24422.1	26286.9	28318.5	27205.2	27010.2	25821.5	25349.8	23742.8	22613.9
60°	23488.1	23661.1	24909.5	27683.2	30500.9	30334.2	30167.6	28170.7	26582.6	25038.5	23906.4
62.5°	21629.6	21871.7	23868.6	27434.8	31239.9	32280.8	32073.3	29636.1	27403.3	25667.4	24132.8
65°	18126.3	18305.6	21173.6	25180.0	30189.6	32947.5	32872.1	30095.2	27532.3	25091.9	22582.4
67.5°	12921.8	13531.9	16189.2	21220.8	27082.6	31809.1	31938.1	29544.9	26321.5	22604.4	18701.8
70°	8122.9	8538.0	10443.7	15192.3	21711.3	27906.5	28331.0	27026.0	22843.4	17620.0	12519.2
72.5°	3874.3	4182.5	5541.0	9616.6	15324.4	21956.6	22293.1	22186.2	17664.0	11101.0	6459.3
75°	1726.5	1842.8	2644.7	4909.0	9893.4	14758.3	15629.4	15774.1	11038.1	5431.0	2512.7
77.5°	880.5	883.7	1239.0	2377.4	4940.4	8805.3	8978.3	9484.6	5984.5	2393.2	874.2
80°	468.6	500.0	657.3	1122.7	2563.0	4336.6	4314.6	4742.3	2654.2	1173.0	292.5
82.5°	210.7	232.7	371.1	588.1	1251.6	1644.7	1773.6	1940.3	1138.4	748.5	128.9
85°	62.9	75.5	182.4	295.6	452.8	474.9	531.5	685.6	644.7	531.5	66.0
87.5°	9.4	9.4	75.5	81.8	66.0	84.9	88.1	97.5	207.6	195.0	34.6
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°	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3
2.5°	3836.6	3814.6	3736.0	3669.9	3613.3	3578.7	3537.8	3512.7	3500.1	3490.7	3493.8
5°	3852.3	3798.9	3663.6	3556.7	3474.9	3386.9	3327.1	3292.6	3276.8	3251.7	3251.7
7.5°	3940.4	3855.5	3666.8	3503.2	3361.7	3242.2	3129.0	3088.1	3059.8	3053.6	3047.3
10°	4066.2	3959.2	3701.4	3474.9	3273.7	3110.2	2949.8	2808.3	2698.2	2632.2	2622.7
12.5°	4223.4	4069.3	3754.8	3456.1	3198.2	2908.9	2484.4	2198.2	2006.3	1946.6	1956.0
15°	4368.1	4201.4	3808.3	3440.4	3059.8	2412.0	1930.9	1603.8	1506.3	1496.9	1500.0
17.5°	4541.0	4342.9	3871.2	3418.3	2679.3	1842.8	1434.0	1346.0	1364.8	1396.3	1393.1
20°	4720.3	4493.8	3946.7	3286.3	2138.4	1386.8	1267.3	1276.8	1305.1	1333.4	1339.7
22.5°	4912.1	4666.8	4034.7	2968.6	1632.1	1207.6	1201.3	1213.9	1242.2	1273.6	1279.9
25°	5176.3	4883.8	4100.8	2553.5	1235.9	1116.4	1129.0	1151.0	1176.1	1210.7	1217.0
27.5°	5515.9	5176.3	4135.3	2012.6	1069.2	1034.6	1037.8	1069.2	1100.7	1132.1	1132.1
30°	5956.2	5525.3	4066.2	1522.1	987.5	956.0	943.4	962.3	1003.2	1034.6	1037.8
32.5°	6349.2	5855.5	3883.8	1163.6	927.7	883.7	852.2	855.4	871.1	890.0	893.1
35°	6742.3	6176.3	3572.4	978.0	864.8	814.5	767.3	742.2	729.6	720.1	729.6
37.5°	7245.5	6575.7	3157.3	890.0	811.3	748.5	682.4	628.9	584.9	556.6	562.9
40°	7893.3	7129.1	2666.7	833.4	761.0	685.6	597.5	528.3	452.8	427.7	415.1
42.5°	8962.5	7968.8	2151.0	786.2	710.7	619.5	509.4	415.1	345.9	320.8	327.1
45°	10651.3	9028.6	1657.3	735.9	660.4	547.2	427.7	327.1	270.4	257.9	264.2
47.5°	12890.3	10399.7	1276.8	679.3	597.5	468.6	336.5	257.9	223.3	220.1	217.0
50°	14997.3	11676.4	1066.1	616.4	522.0	389.9	276.7	217.0	195.0	191.8	191.8
52.5°	16903.0	12591.6	868.0	544.0	440.3	320.8	232.7	191.8	173.0	163.5	163.5
55°	18598.0	13189.1	704.4	456.0	345.9	254.7	201.3	173.0	150.9	138.4	135.2
57.5°	19878.0	13261.4	528.3	364.8	257.9	198.1	173.0	150.9	125.8	110.1	103.8
60°	20425.1	12635.6	389.9	276.7	191.8	157.2	138.4	122.6	94.3	78.6	75.5
62.5°	19874.8	11418.6	289.3	210.7	147.8	116.4	97.5	91.2	66.0	47.2	44.0
65°	17903.1	9660.7	229.6	160.4	110.1	84.9	62.9	59.8	40.9	22.0	18.9
67.5°	14343.2	7566.3	182.4	119.5	78.6	56.6	40.9	37.7	22.0	6.3	6.3
70°	9327.3	4836.6	147.8	88.1	50.3	37.7	25.2	18.9	12.6	3.1	0.0
72.5°	4613.3	2261.1	119.5	69.2	34.6	18.9	9.4	6.3	9.4	0.0	0.0
75°	1789.4	805.1	88.1	47.2	18.9	9.4	6.3	0.0	3.1	0.0	0.0
77.5°	594.4	267.3	53.5	25.2	12.6	6.3	0.0	0.0	0.0	0.0	0.0
80°	220.1	103.8	28.3	15.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	88.1	40.9	18.9	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.0	25.2	12.6	9.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.4	18.9	12.6	9.4	6.3	3.1	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)