

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: P459437

Luminaire Tested: **GALN-SA8D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41903 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

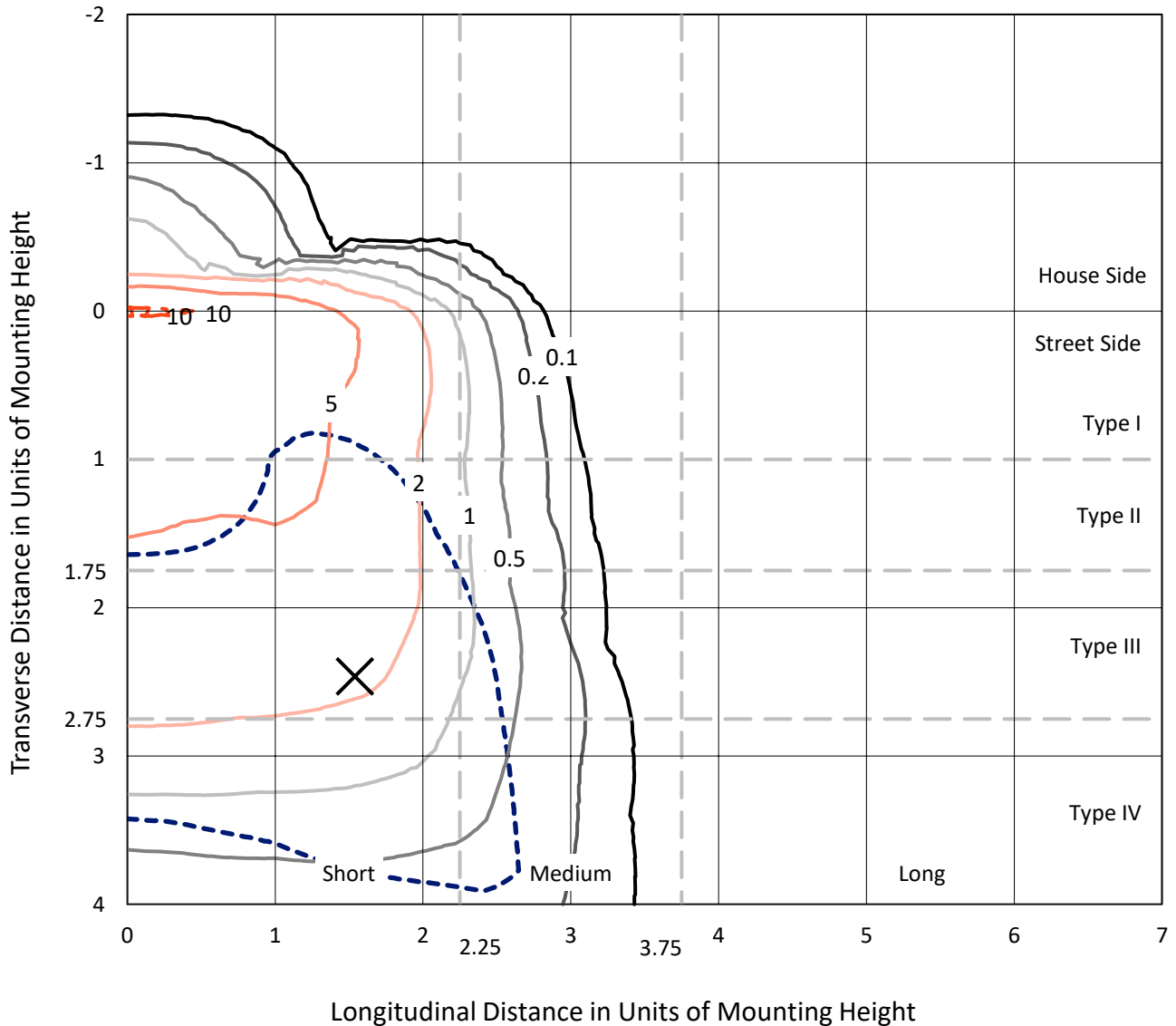
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

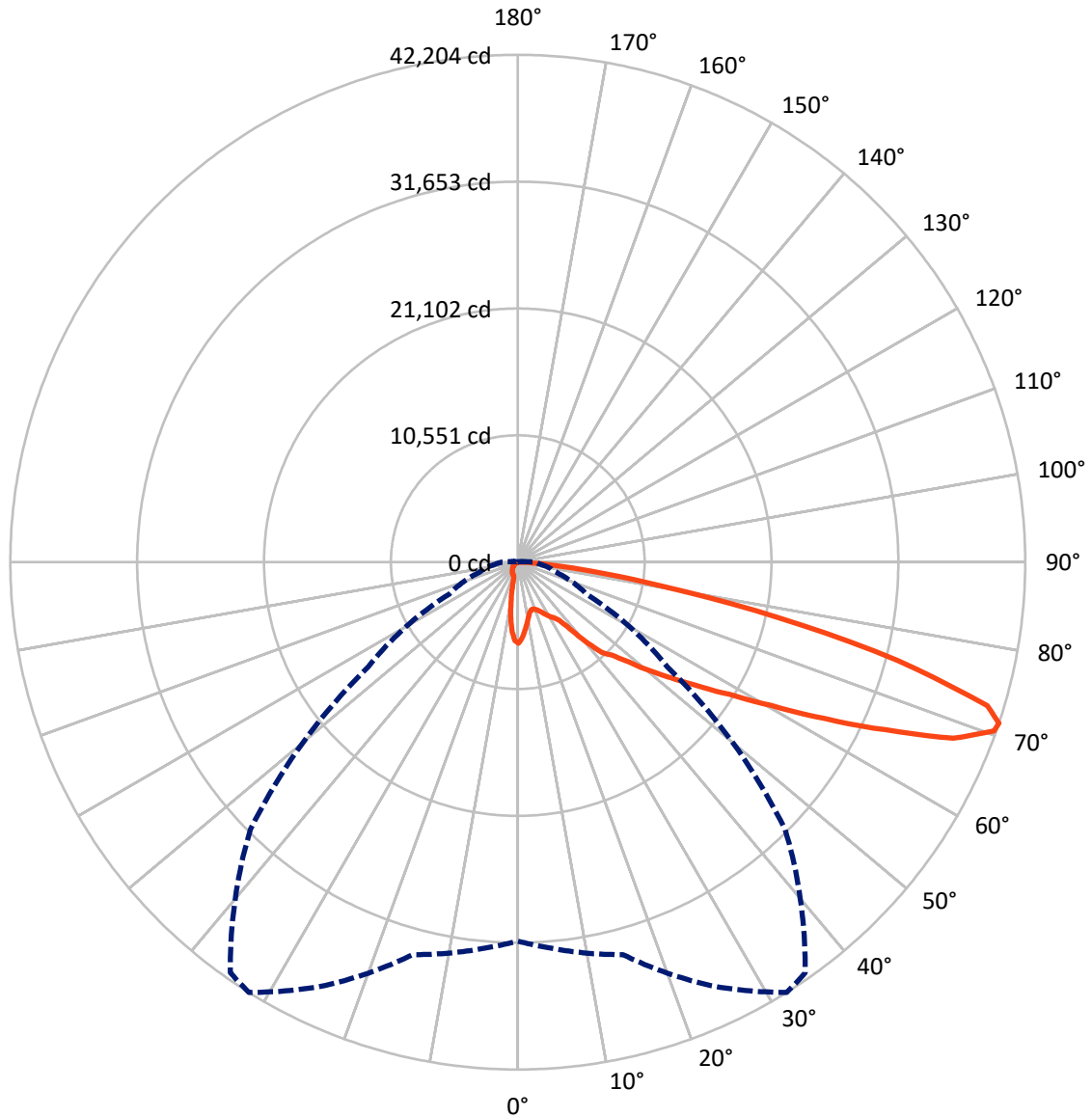
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3509.8	0.0	3509.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	38393.2	0.0	38393.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	41903.0	0.0	41903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	1.3
10°-20°	1189.2	2.8
20°-30°	1850.0	4.4
30°-40°	3082.2	7.4
40°-50°	5733.4	13.7
50°-60°	9205.1	22.0
60°-70°	12381.3	29.5
70°-80°	7346.0	17.5
80°-90°	567.8	1.4
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°	41903.0	100.0
0°-180°	41903.0	100.0

Coefficient of Utilization



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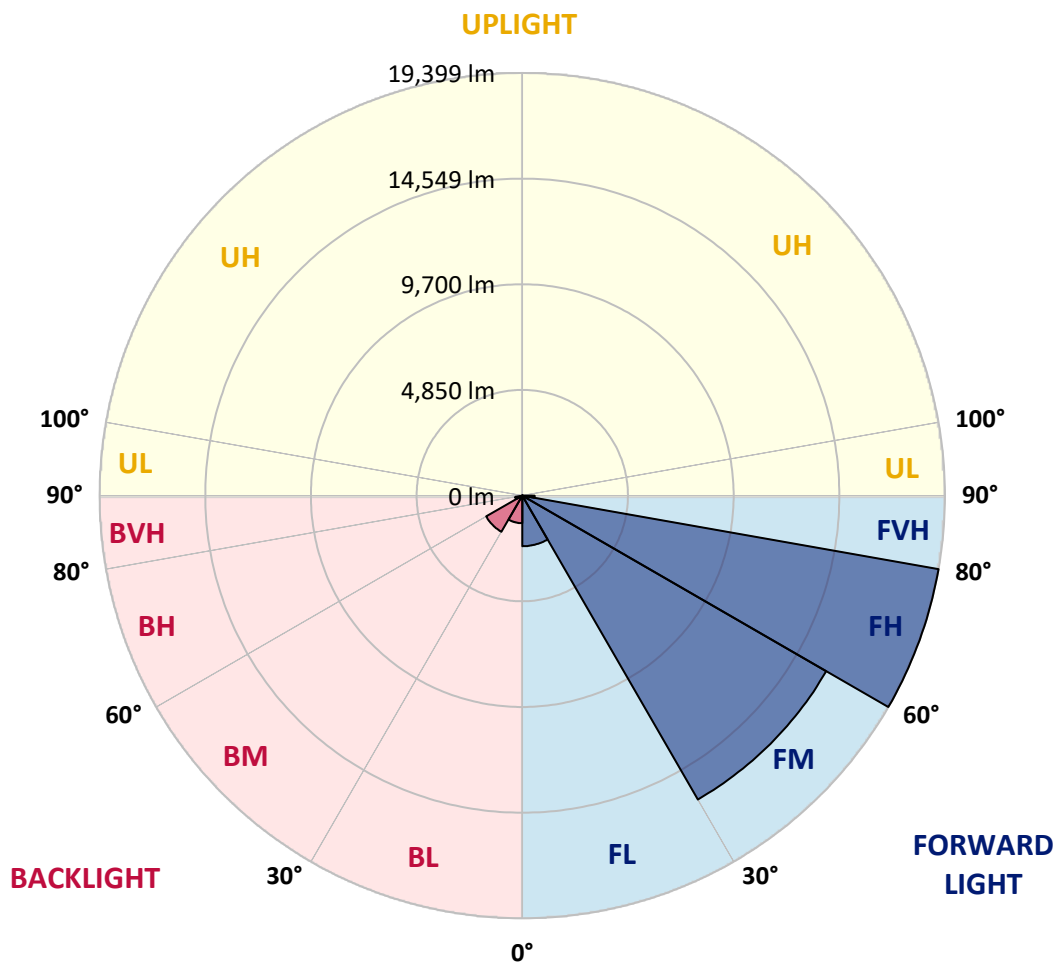
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2322.5	5.5			
FM	(30°-60°)	16106.0	38.4			
FH	(60°-80°)	19399.1	46.3			G5
FVH	(80°-90°)	565.6	1.3			G4/750
BL	(0°-30°)	1264.7	3.0	B3/2500		
BM	(30°-60°)	1914.7	4.6	B2/2500		
BH	(60°-80°)	328.3	0.8	B1/500		G1/500
BVH	(80°-90°)	2.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7
2.5°	6249.7	6314.1	6304.4	6326.9	6381.6	6404.1	6465.3	6532.8	6626.1	6690.4	6732.2
5°	5596.8	5645.0	5651.5	5764.0	5818.7	5879.8	6060.0	6256.2	6474.9	6648.6	6764.4
7.5°	4898.8	4924.5	4976.0	5124.0	5262.3	5323.4	5596.8	5937.7	6281.9	6606.8	6815.9
10°	4323.0	4352.0	4445.3	4602.9	4731.5	4811.9	5191.5	5619.3	6101.8	6584.3	6889.8
12.5°	3994.9	4011.0	4046.4	4187.9	4352.0	4438.8	4847.3	5336.2	5957.0	6593.9	7015.3
15°	3972.4	3966.0	3924.2	3982.1	4130.0	4220.1	4619.0	5143.3	5828.4	6626.1	7163.2
17.5°	4091.4	4075.4	3975.6	3975.6	4097.9	4171.9	4522.5	5040.3	5764.0	6700.1	7372.3
20°	4274.8	4249.1	4085.0	4072.1	4191.2	4268.4	4580.4	5046.8	5776.9	6838.4	7652.2
22.5°	4506.4	4477.4	4229.8	4236.2	4364.8	4442.0	4747.6	5162.6	5857.3	7008.8	7951.3
25°	4808.7	4776.6	4483.9	4471.0	4606.1	4673.6	4995.3	5368.4	5969.9	7221.1	8343.7
27.5°	5210.8	5143.3	4792.6	4773.3	4918.1	5004.9	5294.4	5645.0	6169.3	7513.8	8871.2
30°	5542.1	5468.1	5133.6	5082.1	5236.5	5304.1	5603.2	6018.2	6561.7	8025.3	9601.4
32.5°	5976.3	5867.0	5474.6	5339.5	5503.5	5590.4	6050.3	6712.9	7143.9	8565.7	10469.8
35°	6954.2	6886.6	6407.4	5934.5	5924.9	6034.2	6709.7	7414.1	7742.2	9408.4	11653.5
37.5°	8353.4	8305.1	7796.9	7163.2	6979.9	6928.4	7510.6	8186.1	8697.5	10566.3	13030.2
40°	9977.7	9865.1	9398.7	8861.6	8623.6	8472.4	8456.3	9334.4	9945.5	12139.2	14464.8
42.5°	11142.1	10936.2	10370.1	10331.5	10280.1	10122.5	9665.7	11013.4	11557.0	13831.1	15999.1
45°	12364.4	12052.4	11209.7	11064.9	11045.6	11036.0	11492.7	13001.3	13313.3	15664.6	17575.2
47.5°	13313.3	13065.6	12374.0	12309.7	12390.1	12608.8	13908.3	15111.3	15047.0	17298.6	18897.2
50°	14577.4	14390.8	13622.1	13744.3	14159.2	14516.3	16632.7	17411.1	16471.9	18585.2	19858.9
52.5°	16069.8	15725.7	15011.6	15342.9	15979.8	16574.8	19524.4	19424.7	17472.3	19553.4	20576.2
55°	17362.9	17118.4	16874.0	17218.2	18170.2	18913.3	22136.2	20933.3	18199.2	20331.8	20891.4
57.5°	19550.1	19492.2	19241.4	19592.0	20746.7	21518.7	24474.7	22104.1	18665.6	20737.1	20521.5
60°	22786.0	22692.7	22226.3	22673.4	24178.8	25391.4	26629.8	23155.9	18771.7	20579.4	19456.9
62.5°	26678.0	26359.6	25960.7	26620.1	28685.1	29219.1	28659.4	23779.9	18376.1	19325.0	16890.1
65°	30312.7	29984.6	29994.3	31383.8	33632.2	33995.6	31026.8	23686.6	17218.2	16182.4	12457.7
67.5°	33095.0	33040.3	33432.7	36144.3	39084.2	38833.3	33143.3	22290.6	13786.1	10489.1	6619.6
70°	33236.5	33342.7	34468.5	39045.6	42030.6	41631.7	32963.1	18118.8	8594.6	4824.8	2608.6
71°	31525.3	32239.4	33796.2	38955.5	42204.3	41686.4	31444.9	15175.6	6304.4	3364.5	1881.7
72.5°	26864.6	27240.9	30605.4	36662.2	40830.8	39724.3	27594.7	10637.1	4036.8	2058.6	1080.8
75°	14796.1	15722.5	20495.8	28762.3	32657.6	31686.2	17983.7	5053.2	2013.6	1125.8	447.1
77.5°	7044.2	6864.1	10000.2	17105.6	22142.7	22091.2	9061.0	2245.1	1174.0	762.3	225.2
80°	2013.6	2264.4	3827.7	8131.4	12293.6	12428.7	3480.3	1084.0	813.8	595.1	115.8
82.5°	607.9	620.8	1405.6	3596.1	6114.6	5764.0	1305.9	553.2	585.4	472.8	67.5
85°	106.1	131.9	414.9	1267.3	2332.0	1769.1	328.1	263.8	386.0	312.0	38.6
87.5°	6.4	9.6	138.3	144.7	205.9	119.0	57.9	38.6	83.6	83.6	22.5
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°	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7	6738.7
2.5°	6761.2	6780.5	6767.6	6738.7	6690.4	6632.5	6555.3	6491.0	6436.3	6407.4	6442.7
5°	6803.0	6828.7	6764.4	6619.6	6400.9	6162.9	5892.7	5683.6	5519.6	5468.1	5448.8
7.5°	6867.3	6883.4	6709.7	6388.1	5924.9	5362.0	4869.8	4454.9	4133.3	4036.8	3895.2
10°	6950.9	6941.3	6613.2	6014.9	5201.1	4355.2	3592.9	3026.8	2599.0	2444.6	2431.7
12.5°	7079.6	7028.1	6491.0	5506.7	4339.1	3232.6	2290.2	1791.6	1521.4	1431.4	1412.1
15°	7240.4	7118.2	6298.0	4911.7	3322.7	2087.5	1412.1	1260.9	1225.5	1219.1	1212.6
17.5°	7430.2	7237.2	6043.9	4181.5	2335.2	1354.2	1180.5	1177.3	1180.5	1174.0	1170.8
20°	7687.5	7362.7	5741.5	3316.3	1543.9	1141.9	1125.8	1125.8	1129.0	1125.8	1125.8
22.5°	7960.9	7510.6	5368.4	2531.4	1164.4	1084.0	1080.8	1087.2	1093.6	1090.4	1090.4
25°	8298.7	7703.6	4876.3	1733.7	1042.2	1035.7	1038.9	1051.8	1064.7	1067.9	1064.7
27.5°	8787.6	7941.6	4348.8	1193.3	955.3	961.7	993.9	1026.1	1045.4	1048.6	1048.6
30°	9337.6	8205.4	3660.4	968.2	884.5	884.5	923.1	984.3	1026.1	1032.5	1035.7
32.5°	10045.3	8511.0	2898.1	871.7	817.0	810.6	846.0	919.9	997.1	1019.6	1019.6
35°	10920.2	8871.2	2155.1	810.6	768.8	752.7	772.0	833.1	932.8	997.1	1003.6
37.5°	11946.2	9212.2	1576.1	755.9	723.7	701.2	714.1	762.3	842.7	939.2	965.0
40°	12895.1	9514.5	1177.3	710.9	678.7	662.6	672.3	694.8	762.3	852.4	868.5
42.5°	13930.8	9749.3	936.0	662.6	633.7	627.2	627.2	636.9	681.9	733.4	736.6
45°	14963.4	9833.0	784.8	604.7	585.4	591.8	588.6	582.2	601.5	595.1	595.1
47.5°	15699.9	9733.3	649.7	550.0	550.0	559.7	543.6	521.1	511.4	472.8	476.0
50°	16204.9	9369.8	533.9	485.7	511.4	524.3	492.1	456.7	421.4	379.6	369.9
52.5°	16414.0	8723.3	437.4	402.1	453.5	469.6	431.0	389.2	334.5	299.1	289.5
55°	16278.9	7925.6	363.5	328.1	382.8	402.1	363.5	315.2	254.1	215.5	209.1
57.5°	15683.9	6973.5	308.8	260.5	305.6	318.4	292.7	241.2	180.1	141.5	141.5
60°	14654.6	5989.2	250.9	205.9	228.4	247.7	221.9	173.7	122.2	86.8	80.4
62.5°	12567.0	4863.4	202.6	160.8	160.8	176.9	154.4	125.4	77.2	45.0	41.8
65°	9073.9	3335.6	160.8	119.0	115.8	115.8	96.5	83.6	45.0	19.3	12.9
67.5°	4931.0	1881.7	128.7	90.1	80.4	77.2	61.1	48.2	19.3	3.2	0.0
70°	1939.6	723.7	99.7	61.1	51.5	48.2	32.2	22.5	12.9	0.0	0.0
71°	1315.6	498.6	86.8	51.5	41.8	35.4	25.7	19.3	9.6	0.0	0.0
72.5°	752.7	308.8	67.5	38.6	32.2	25.7	19.3	12.9	9.6	0.0	0.0
75°	328.1	157.6	41.8	28.9	22.5	16.1	12.9	9.6	3.2	0.0	0.0
77.5°	167.3	86.8	28.9	22.5	12.9	9.6	6.4	3.2	0.0	0.0	0.0
80°	93.3	45.0	19.3	12.9	9.6	6.4	3.2	3.2	0.0	0.0	0.0
82.5°	51.5	25.7	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.2	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	6.4	0.0	0.0	0.0	0.0	3.2	3.2	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)