

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: P456009

Luminaire Tested: **GALN-SA7B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26537 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

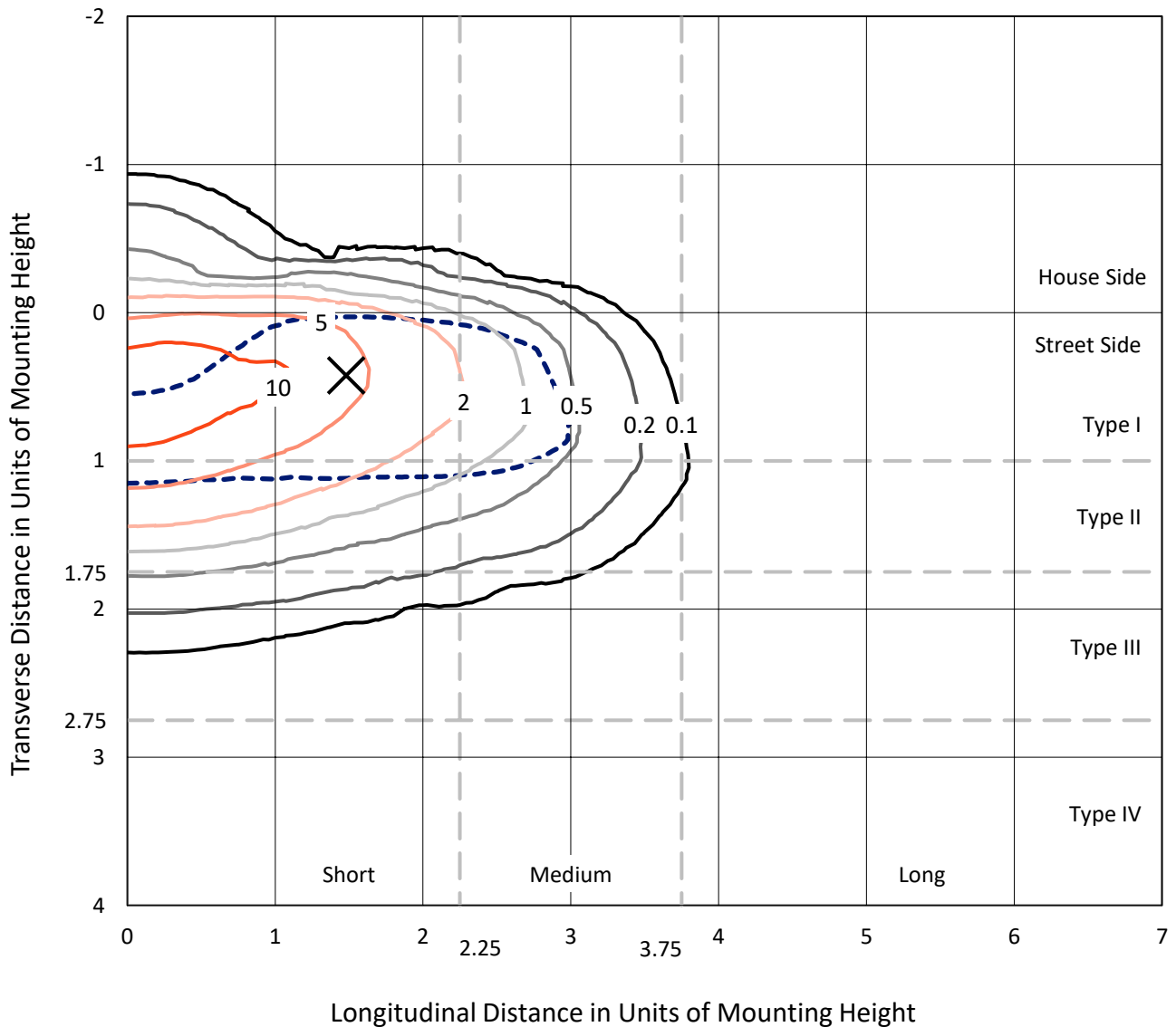
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

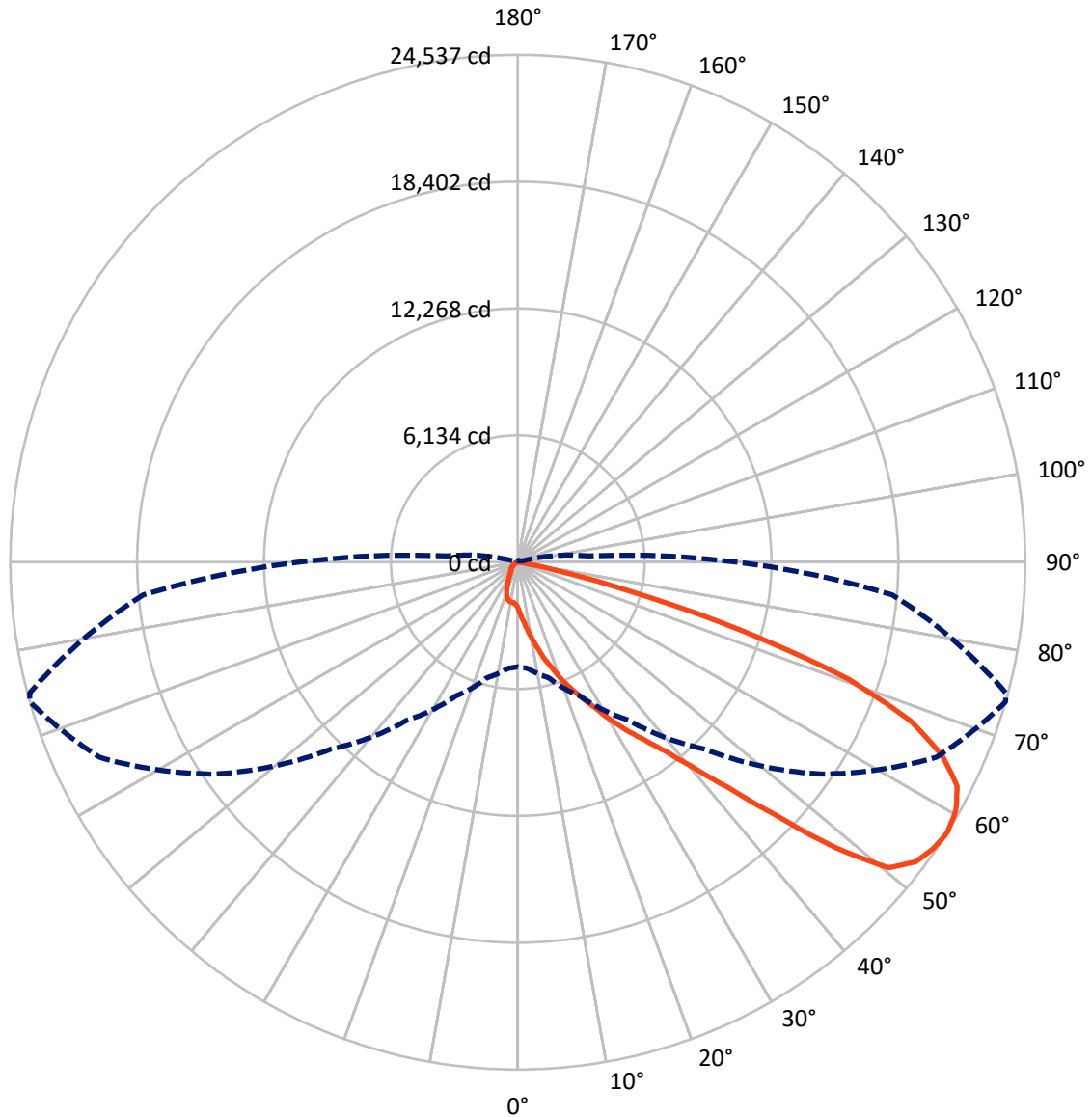
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1530.6	0.0	1530.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	25006.4	0.0	25006.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	26537.0	0.0	26537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.0
10°-20°	1057.3	4.0
20°-30°	2262.5	8.5
30°-40°	4158.4	15.7
40°-50°	6374.9	24.0
50°-60°	6743.8	25.4
60°-70°	4403.9	16.6
70°-80°	1203.3	4.5
80°-90°	64.8	0.2
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°	26537.0	100.0
0°-180°	26537.0	100.0

Coefficient of Utilization



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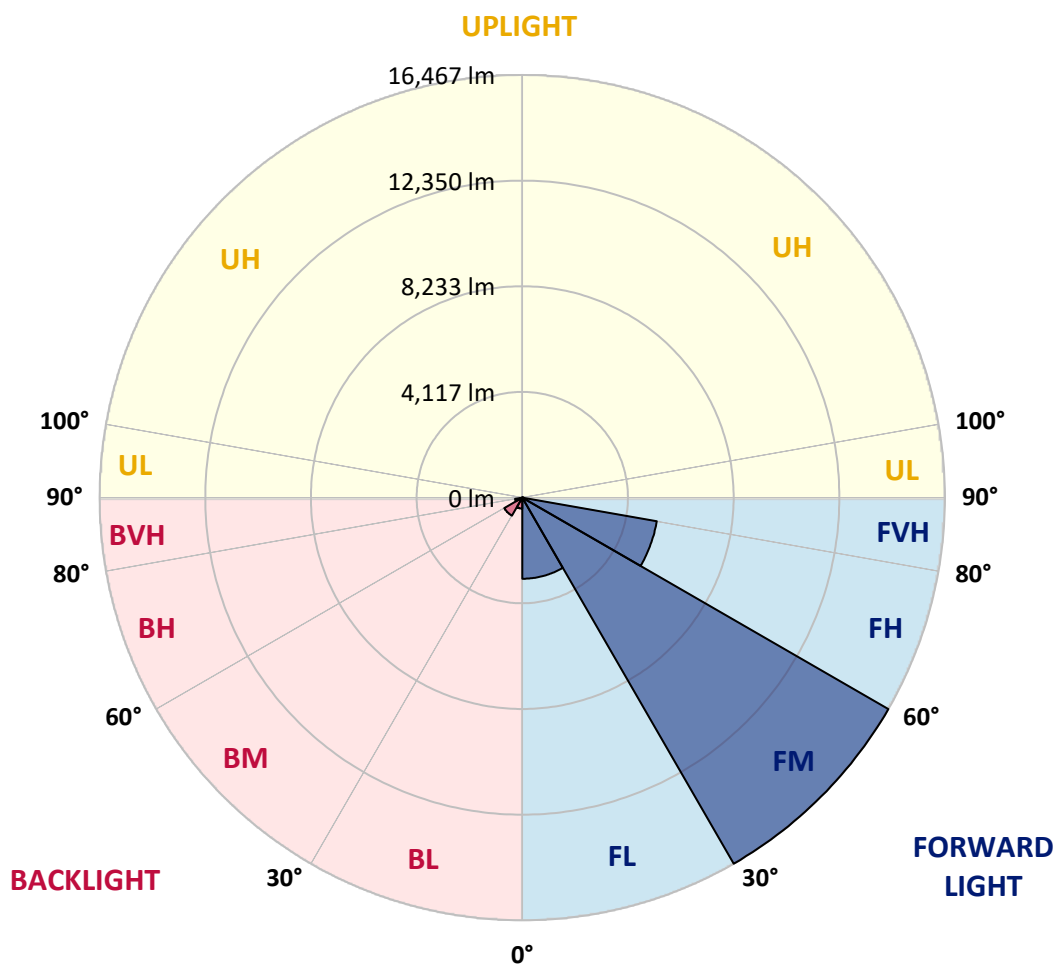
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3160.5	11.9			
FM	(30°-60°)	16466.7	62.1			
FH	(60°-80°)	5319.8	20.0			G3/7500
FVH	(80°-90°)	59.4	0.2			G1/100
BL	(0°-30°)	427.5	1.6	B1/500		
BM	(30°-60°)	810.3	3.1	B1/1000		
BH	(60°-80°)	287.4	1.1	B1/500		G1/500
BVH	(80°-90°)	5.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4
2.5°	3252.1	3222.8	3164.2	3144.0	3057.9	2924.2	2806.9	2649.3	2524.7	2511.9	2361.7
5°	4355.1	4289.1	4261.7	4129.7	3922.7	3728.5	3395.0	3142.2	2850.9	2828.9	2526.6
7.5°	5417.8	5326.2	5298.7	5174.1	4932.2	4626.3	4193.9	3734.0	3272.3	3230.1	2748.3
10°	6187.3	6200.1	6150.6	6068.2	5872.1	5560.7	5027.5	4399.1	3741.3	3688.2	2997.5
12.5°	6738.8	6736.9	6746.1	6744.3	6639.8	6403.5	5842.8	5119.1	4258.0	4153.6	3283.3
15°	7097.9	7103.4	7130.9	7226.1	7237.1	7090.6	6623.3	5808.0	4857.1	4727.0	3592.9
17.5°	7460.7	7499.1	7543.1	7632.9	7713.5	7654.9	7325.1	6526.2	5399.4	5302.3	3924.5
20°	8059.8	8112.9	8087.3	8142.2	8184.4	8189.9	7935.2	7189.5	6057.2	5894.1	4303.8
22.5°	9018.0	9016.2	8950.2	8851.3	8768.8	8765.2	8534.3	7871.1	6654.5	6496.9	4684.9
25°	10229.1	10234.6	10106.3	9824.2	9619.0	9368.0	9102.3	8468.4	7293.9	7099.7	5086.1
27.5°	11617.9	11583.1	11388.9	11000.4	10593.7	10165.0	9782.0	9162.8	7971.8	7810.6	5546.0
30°	12865.6	12852.8	12625.6	12151.0	11616.0	11185.5	10630.3	10033.0	8849.4	8651.6	6060.9
32.5°	14027.2	14045.5	13730.4	13239.4	12722.7	12226.2	11639.9	10864.9	9710.6	9430.3	6621.5
35°	14934.1	14952.5	14626.3	14217.7	13686.4	13274.2	12715.4	11751.6	10560.7	10324.4	7266.4
37.5°	15417.8	15441.6	15252.9	14945.1	14613.5	14406.5	13886.1	12893.1	11594.1	11451.1	8028.6
40°	15509.4	15536.9	15454.5	15372.0	15353.7	15502.1	15350.0	14237.9	13026.8	12803.3	9164.6
42.5°	15234.6	15271.3	15307.9	15491.1	15864.9	16409.0	16938.5	16062.8	14871.8	14571.4	10553.4
45°	14512.7	14509.1	14653.8	15128.3	15965.7	17127.3	18598.5	18347.5	17385.6	17028.3	12515.6
47.5°	13277.8	13259.5	13572.8	14248.9	15553.4	17259.2	19952.5	21121.4	20593.7	20264.0	14624.5
50°	11396.2	11486.0	11978.8	12922.4	14529.2	16859.8	20370.2	22940.8	23226.6	22876.6	16328.4
52.5°	9192.1	9188.4	9961.6	11242.3	13012.2	15980.3	20078.9	23270.6	24082.2	23814.7	17167.6
55°	6802.9	6850.5	7654.9	8946.6	11042.6	14375.3	19128.0	22931.6	24408.4	24219.6	17720.9
57°	5060.5	5144.8	5789.7	7156.5	9327.6	12786.8	17862.0	22325.2	24536.6	24434.0	18180.8
57.5°	4723.4	4727.0	5355.5	6597.7	8825.6	12176.7	17499.2	22072.3	24532.9	24476.1	18255.9
60°	2907.7	2999.3	3433.5	4459.5	6460.3	9503.5	15067.9	20619.4	24342.4	24424.8	18576.5
62.5°	1740.6	1779.1	2061.2	2687.8	4164.6	6936.6	12330.6	18759.7	23845.9	24096.9	18554.5
65°	1119.5	1128.6	1256.9	1627.0	2603.5	4688.6	9501.7	16302.8	22561.5	23023.2	17829.0
67.5°	864.8	879.4	930.7	1068.2	1509.7	2920.5	6720.5	13680.9	20483.8	21079.3	16070.1
70°	767.7	775.0	793.3	837.3	998.5	1649.0	4181.0	10687.1	16986.2	17154.7	12576.1
72.5°	626.6	646.8	703.6	718.2	791.5	1029.7	2326.9	7173.0	11412.7	11454.8	7035.6
75°	485.5	489.2	573.5	615.6	666.9	709.1	1038.8	3616.7	5481.9	5188.7	2711.6
77.5°	362.8	379.3	417.7	470.9	544.2	507.5	465.4	1363.1	1702.1	1671.0	787.8
80°	232.7	241.8	291.3	353.6	423.2	331.6	262.0	399.4	373.8	384.8	188.7
82.5°	117.3	119.1	186.9	287.7	269.3	166.7	164.9	163.1	139.2	137.4	87.9
85°	12.8	27.5	120.9	164.9	120.9	55.0	77.0	75.1	73.3	75.1	51.3
87.5°	1.8	1.8	20.2	23.8	16.5	18.3	22.0	23.8	29.3	27.5	22.0
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°	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4
2.5°	2288.4	2215.1	2079.5	1949.4	1852.3	1790.0	1709.4	1680.1	1638.0	1632.5	1612.3
5°	2387.3	2248.1	2011.7	1824.9	1674.6	1561.0	1462.1	1379.6	1313.7	1299.0	1306.3
7.5°	2528.4	2321.4	1991.6	1736.9	1528.0	1333.8	1176.3	1079.2	1009.5	983.9	987.5
10°	2687.8	2418.5	1987.9	1643.5	1324.7	1086.5	914.3	828.1	787.8	773.2	756.7
12.5°	2876.5	2530.2	1978.8	1498.7	1101.1	866.6	743.9	692.6	654.1	643.1	643.1
15°	3089.1	2649.3	1934.8	1319.2	894.1	716.4	633.9	593.6	580.8	569.8	569.8
17.5°	3310.8	2766.6	1843.2	1097.5	742.0	613.8	562.5	538.7	520.3	507.5	507.5
20°	3563.6	2882.0	1696.6	901.4	626.6	547.8	507.5	480.0	465.4	454.4	450.7
22.5°	3803.6	2975.5	1509.7	740.2	546.0	492.9	456.2	426.9	412.2	406.7	406.7
25°	4052.8	3032.3	1284.4	611.9	498.4	447.1	406.7	382.9	370.1	366.4	364.6
27.5°	4294.6	3065.2	1086.5	535.0	454.4	404.9	366.4	348.1	335.3	331.6	333.5
30°	4587.8	3070.7	894.1	480.0	415.9	364.6	329.8	313.3	306.0	302.3	300.5
32.5°	4884.6	3063.4	751.2	447.1	379.3	329.8	300.5	287.7	282.2	276.7	276.7
35°	5218.1	3024.9	639.4	414.1	344.5	300.5	274.8	263.8	256.5	251.0	249.2
37.5°	5632.1	3004.8	575.3	377.4	313.3	273.0	249.2	238.2	232.7	225.4	223.5
40°	6284.4	3094.6	555.2	344.5	282.2	247.3	225.4	212.5	205.2	197.9	196.0
42.5°	7097.9	3252.1	522.2	311.5	254.7	223.5	201.5	186.9	174.1	164.9	161.2
45°	8151.4	3459.2	470.9	276.7	230.9	197.9	177.7	159.4	142.9	135.6	133.7
47.5°	9256.2	3658.9	425.1	249.2	205.2	175.9	153.9	133.7	119.1	113.6	111.8
50°	9934.1	3699.2	395.8	218.0	179.6	152.1	130.1	111.8	102.6	97.1	97.1
52.5°	10243.7	3635.1	355.4	190.5	155.7	133.7	111.8	97.1	91.6	87.9	86.1
55°	10459.9	3536.1	302.3	164.9	133.7	113.6	98.9	87.9	80.6	77.0	75.1
57°	10586.4	3402.4	262.0	144.7	115.4	98.9	87.9	78.8	71.5	64.1	64.1
57.5°	10591.9	3351.1	251.0	142.9	109.9	95.3	86.1	77.0	67.8	60.5	58.6
60°	10428.8	2999.3	201.5	120.9	87.9	80.6	71.5	60.5	47.6	40.3	38.5
62.5°	9904.8	2552.2	166.7	102.6	71.5	62.3	51.3	45.8	33.0	23.8	23.8
65°	9111.5	2070.4	142.9	82.4	58.6	45.8	34.8	33.0	20.2	11.0	9.2
67.5°	7964.5	1612.3	120.9	67.8	49.5	33.0	23.8	22.0	11.0	3.7	0.0
70°	6068.2	1099.3	100.8	55.0	36.6	23.8	16.5	12.8	7.3	1.8	0.0
72.5°	3497.6	604.6	84.3	42.1	27.5	18.3	12.8	7.3	7.3	0.0	0.0
75°	1249.5	260.2	64.1	31.1	22.0	14.7	9.2	3.7	5.5	1.8	0.0
77.5°	397.6	139.2	42.1	23.8	18.3	11.0	7.3	3.7	3.7	1.8	0.0
80°	117.3	73.3	25.7	20.2	12.8	9.2	5.5	1.8	3.7	1.8	0.0
82.5°	64.1	36.6	20.2	14.7	12.8	7.3	5.5	1.8	1.8	1.8	0.0
85°	33.0	22.0	16.5	14.7	12.8	7.3	5.5	1.8	0.0	1.8	1.8
87.5°	18.3	16.5	16.5	14.7	12.8	9.2	5.5	1.8	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)