

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: P455071

Luminaire Tested: **GALN-SA6B-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27970 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

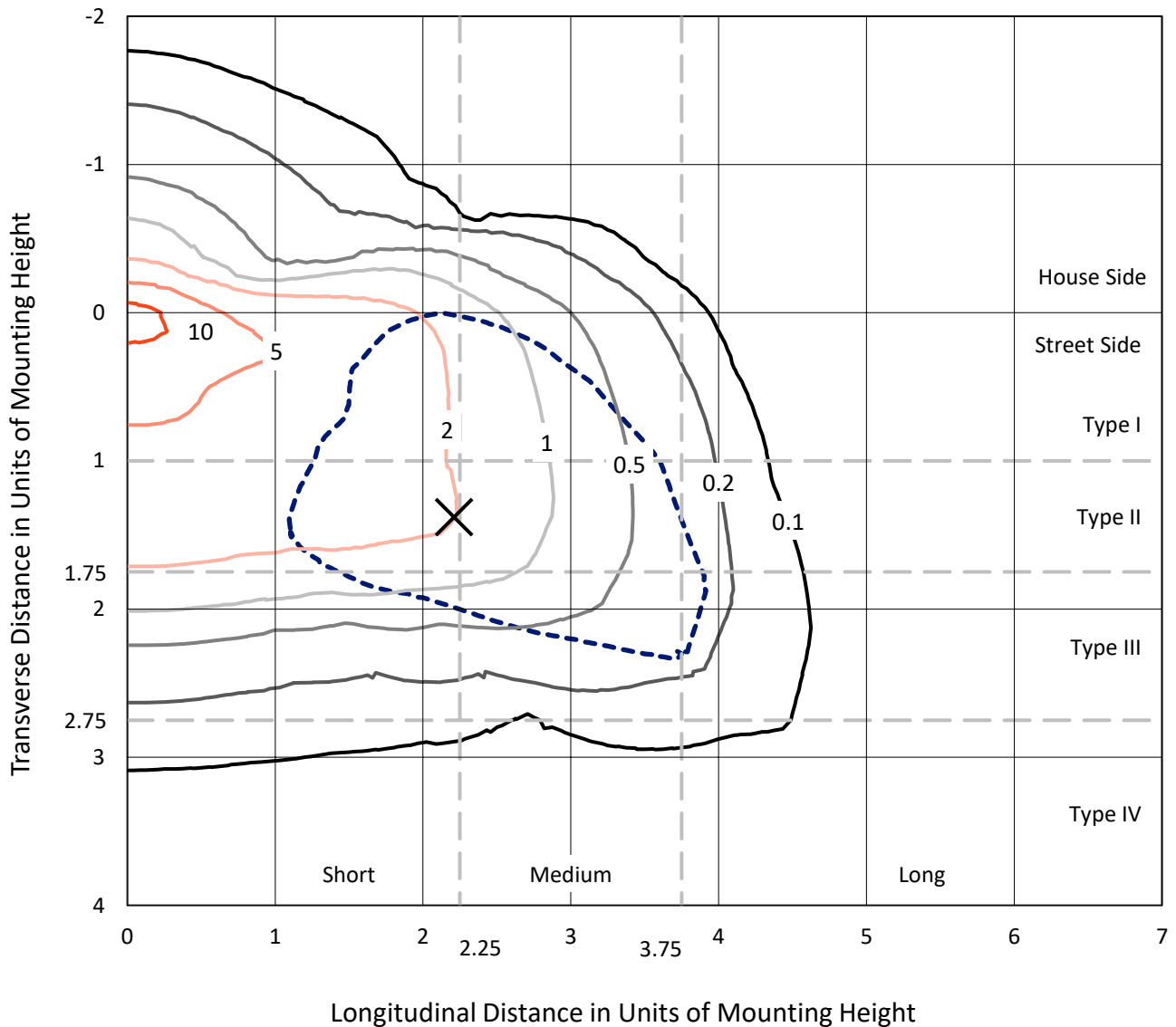
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455071
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Iso-Footcandle Lines of Horizontal Illumination

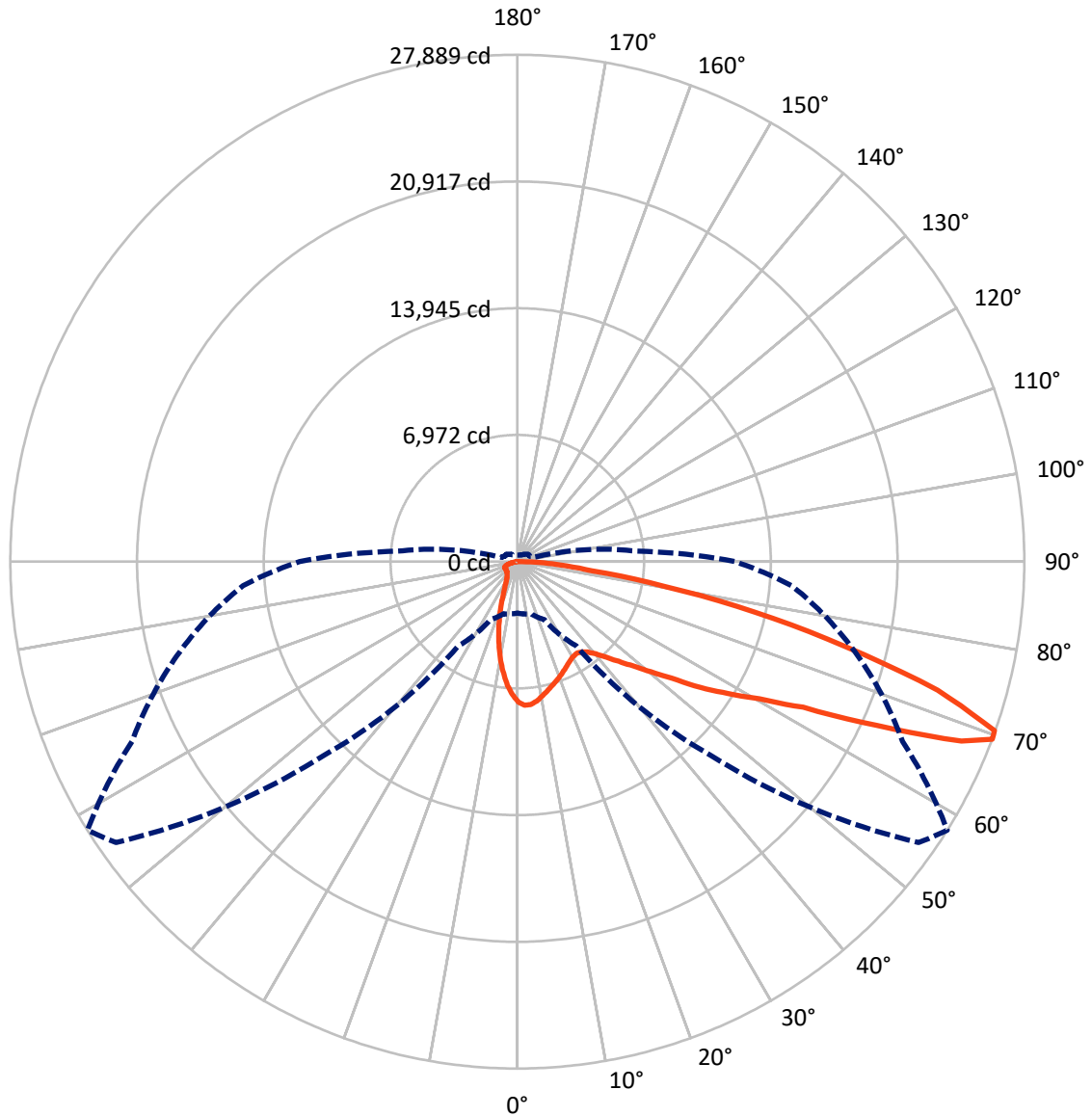
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4099.0	0.0	4099.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23871.0	0.0	23871.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	27970.0	0.0	27970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.4	2.3
10°-20°	1441.4	5.2
20°-30°	1862.2	6.7
30°-40°	2418.7	8.6
40°-50°	3516.4	12.6
50°-60°	5611.1	20.1
60°-70°	7495.7	26.8
70°-80°	4321.0	15.4
80°-90°	647.2	2.3
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°	27970.0	100.0
0°-180°	27970.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455071

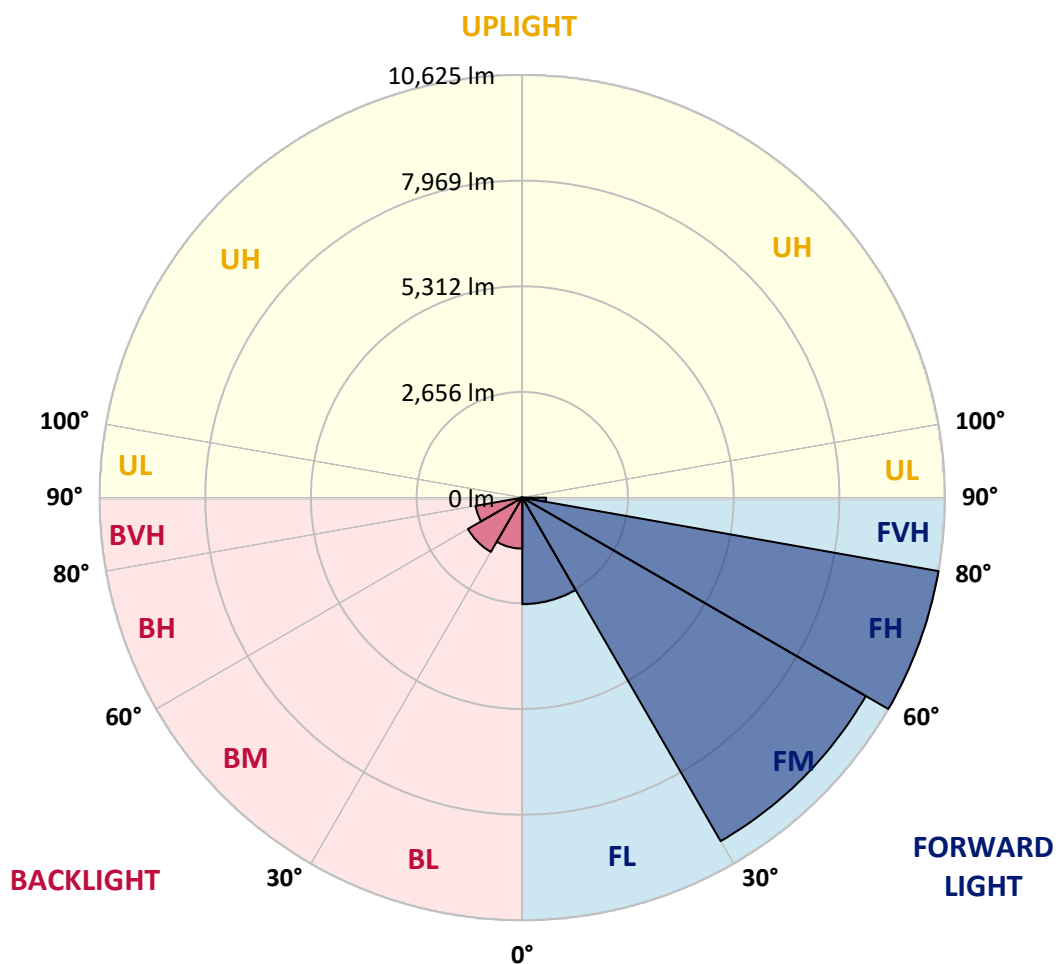
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2678.8	9.6			
FM	(30°-60°)	9969.9	35.6			
FH	(60°-80°)	10624.7	38.0			G4/12000
FVH	(80°-90°)	597.6	2.1			G4/750
BL	(0°-30°)	1281.2	4.6	B3/2500		
BM	(30°-60°)	1576.3	5.6	B2/2500		
BH	(60°-80°)	1191.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	49.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3
2.5°	8016.3	8038.1	8031.9	8024.1	8011.6	7977.3	7921.1	7911.8	7875.9	7799.5	7704.3
5°	7893.1	7911.8	7913.3	7924.3	7939.9	7933.6	7893.1	7888.4	7835.3	7732.4	7573.3
7.5°	7470.3	7495.3	7549.9	7610.7	7665.3	7716.8	7729.3	7737.1	7704.3	7585.8	7373.6
10°	6994.6	7019.5	7044.5	7135.0	7269.1	7397.0	7503.1	7517.1	7524.9	7415.7	7156.8
12.5°	6467.3	6518.8	6571.8	6706.0	6885.4	7086.6	7273.8	7303.4	7356.5	7273.8	6969.6
15°	6019.6	6072.7	6149.1	6269.2	6486.0	6776.2	7039.8	7088.2	7192.7	7150.6	6794.9
17.5°	5709.2	5727.9	5781.0	5918.2	6152.2	6458.0	6810.5	6907.2	7074.1	7063.2	6645.1
20°	5464.3	5487.7	5520.5	5604.7	5848.0	6170.9	6596.8	6721.6	6947.8	6985.2	6497.0
22.5°	5361.4	5378.5	5373.8	5419.1	5584.4	5908.9	6380.0	6528.2	6835.5	6932.2	6359.7
25°	5367.6	5383.2	5359.8	5348.9	5447.1	5678.0	6153.8	6342.5	6745.0	6896.3	6234.9
27.5°	5472.1	5483.0	5439.3	5395.7	5403.5	5534.5	5966.6	6175.6	6668.5	6911.9	6130.4
30°	5612.5	5632.8	5604.7	5551.7	5493.9	5500.2	5846.5	6052.4	6632.7	6966.5	6080.5
32.5°	5793.4	5812.2	5799.7	5757.6	5682.7	5600.0	5816.8	6007.1	6635.8	7077.2	6069.5
35°	5983.8	6021.2	6041.5	6038.3	5977.5	5834.0	5933.8	6091.4	6710.7	7262.9	6133.5
37.5°	6199.0	6230.2	6317.6	6373.7	6317.6	6150.7	6197.5	6306.6	6876.0	7531.2	6273.9
40°	6408.0	6454.8	6582.7	6757.5	6735.6	6589.0	6599.9	6671.7	7167.7	7930.5	6548.4
42.5°	6626.4	6682.6	6905.6	7164.6	7216.1	7102.2	7131.8	7195.8	7582.6	8484.3	7019.5
45°	6907.2	6974.3	7248.8	7571.7	7774.5	7704.3	7788.5	7819.7	8138.0	9204.9	7640.4
47.5°	7269.1	7347.1	7685.6	8088.0	8375.1	8439.0	8585.7	8566.9	8825.9	10058.2	8445.3
50°	7879.0	7922.7	8242.5	8652.7	9047.4	9336.0	9495.1	9524.7	9679.1	10888.1	9345.3
52.5°	8604.4	8643.4	8874.2	9233.0	9727.5	10339.0	10732.1	10635.4	10672.8	11898.9	10398.2
55°	9420.2	9485.7	9632.3	9871.0	10512.1	11412.2	12201.5	12224.9	11810.0	12866.0	11407.5
57.5°	10052.0	10162.7	10413.8	10753.9	11566.6	12605.5	13666.2	13681.8	13151.5	13898.6	12521.3
60°	9733.7	9864.8	10438.8	11267.1	12950.2	14688.0	15416.4	15327.5	14457.1	15074.8	13879.9
62.5°	8361.0	8384.4	9219.0	10513.7	13376.1	17473.9	18021.4	17645.5	16199.5	16566.1	15260.4
65°	5411.3	5564.1	6225.5	8039.7	11976.9	19019.8	22585.7	21716.8	18642.3	18258.5	16416.3
67.5°	3416.2	3377.2	3651.7	4590.8	8237.8	17658.0	26480.7	26343.5	21836.9	19327.1	16140.2
69°	2832.8	2876.4	2970.0	3519.1	5668.7	15076.4	26940.9	27889.3	23385.9	19242.8	15137.2
70°	2569.1	2589.4	2687.7	3119.8	4373.9	12627.3	26185.9	27847.2	23994.3	18890.3	14410.3
72.5°	2038.8	2037.2	2205.7	2595.7	3269.5	7208.3	21501.6	24176.8	23314.2	17249.3	11906.7
75°	1549.0	1573.9	1759.6	2196.3	3012.2	3938.7	15004.6	18618.9	18620.4	13624.1	7429.8
77.5°	1116.9	1132.5	1349.3	1843.8	2837.4	3193.1	9994.2	13354.2	12554.0	6242.7	2335.2
80°	731.6	740.9	906.3	1460.1	2558.2	3012.2	5926.0	8173.8	5921.4	1656.6	772.1
82.5°	400.9	447.7	553.8	945.3	2052.8	2782.8	3601.8	4136.8	2221.3	737.8	402.5
85°	201.2	213.7	312.0	552.2	1341.5	2302.4	2508.3	2372.6	1146.5	366.6	209.0
87.5°	59.3	74.9	129.5	213.7	544.4	1199.6	1396.1	1252.6	441.4	132.6	43.7
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°	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3	7729.3
2.5°	7665.3	7637.2	7512.4	7400.1	7297.2	7188.0	7096.0	7014.8	7022.6	7024.2	6941.5
5°	7490.6	7426.7	7189.5	6968.0	6780.9	6543.8	6341.0	6209.9	6144.4	6057.1	6088.3
7.5°	7253.5	7130.3	6801.1	6433.0	6088.3	5781.0	5447.1	5217.8	5071.2	4929.3	4948.0
10°	7008.6	6810.5	6331.6	5844.9	5398.8	4907.4	4481.6	4116.6	3845.1	3743.7	3676.7
12.5°	6757.5	6497.0	5888.6	5241.2	4625.1	4037.0	3433.3	3041.8	2742.3	2583.2	2603.5
15°	6528.2	6211.5	5426.9	4637.6	3837.3	3136.9	2534.8	2162.0	1953.0	1909.3	1934.3
17.5°	6316.0	5901.1	4994.8	4051.0	3116.7	2352.3	1904.6	1694.0	1609.8	1586.4	1584.9
20°	6097.6	5637.5	4509.7	3424.0	2428.8	1823.5	1563.0	1464.7	1449.1	1458.5	1460.1
22.5°	5876.1	5311.4	4010.5	2801.6	1934.3	1491.3	1366.5	1339.9	1352.4	1374.3	1377.4
25°	5671.8	5024.4	3530.0	2255.6	1544.3	1310.3	1249.5	1249.5	1277.6	1310.3	1311.9
27.5°	5503.3	4746.8	3051.2	1790.8	1293.2	1179.3	1159.0	1169.9	1208.9	1233.9	1235.4
30°	5364.5	4487.8	2598.8	1435.1	1137.2	1074.8	1070.1	1088.8	1116.9	1140.3	1141.8
32.5°	5260.0	4260.1	2176.1	1205.8	1029.5	995.2	993.7	1007.7	1023.3	1029.5	1035.8
35°	5219.4	4071.3	1789.2	1060.7	957.8	935.9	935.9	934.4	940.6	943.7	946.9
37.5°	5252.2	3926.3	1489.7	967.1	904.7	889.1	879.8	870.4	867.3	867.3	868.9
40°	5391.0	3849.8	1266.6	906.3	867.3	843.9	826.7	815.8	804.9	808.0	811.1
42.5°	5685.8	3863.9	1115.3	865.7	834.5	801.8	776.8	764.3	756.5	765.9	764.3
45°	6155.3	4004.2	1018.6	837.7	801.8	759.7	736.3	723.8	723.8	737.8	742.5
47.5°	6812.1	4272.5	967.1	815.8	776.8	726.9	703.5	694.2	697.3	720.7	722.2
50°	7613.8	4739.0	957.8	804.9	764.3	703.5	677.0	667.6	675.4	700.4	703.5
52.5°	8498.3	5339.5	1003.0	806.5	753.4	689.5	655.2	641.1	648.9	669.2	675.4
55°	9546.5	6091.4	1120.0	812.7	737.8	681.7	639.6	608.4	617.7	631.8	633.3
57.5°	10616.6	7039.8	1325.9	814.3	725.4	667.6	613.0	572.5	572.5	581.8	586.5
60°	11923.8	8072.4	1597.3	815.8	726.9	647.4	577.2	531.9	525.7	530.4	531.9
62.5°	13221.7	8936.6	1642.6	811.1	742.5	627.1	538.2	491.4	480.4	478.9	475.8
65°	13794.1	8776.0	1346.2	789.3	759.7	614.6	507.0	452.4	433.7	427.4	427.4
67.5°	12861.3	7423.5	1012.4	759.7	748.7	602.1	477.3	419.6	397.8	385.3	385.3
69°	11984.7	6603.0	909.4	739.4	720.7	581.8	458.6	402.5	375.9	361.9	357.2
70°	11307.7	6038.3	865.7	722.2	694.2	558.4	444.6	390.0	360.3	344.7	341.6
72.5°	9024.0	4737.4	758.1	656.7	591.2	469.5	394.7	351.0	322.9	305.7	301.1
75°	5200.7	2567.6	628.6	570.9	475.8	365.0	333.8	305.7	283.9	268.3	263.6
77.5°	1600.5	992.1	455.5	450.8	349.4	282.3	266.7	255.8	240.2	223.1	219.9
80°	673.9	505.4	308.9	304.2	232.4	196.5	191.9	190.3	184.1	170.0	165.3
82.5°	369.7	285.5	215.3	187.2	140.4	113.9	118.6	120.1	115.4	101.4	92.0
85°	180.9	156.0	104.5	84.2	64.0	40.6	39.0	46.8	43.7	31.2	34.3
87.5°	35.9	43.7	28.1	12.5	6.2	0.0	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)