

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: P456927

Luminaire Tested: **GALN-SA8B-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456927
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-SA8B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38087 lumens
Efficiency: N/A
Efficacy: 117.2 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

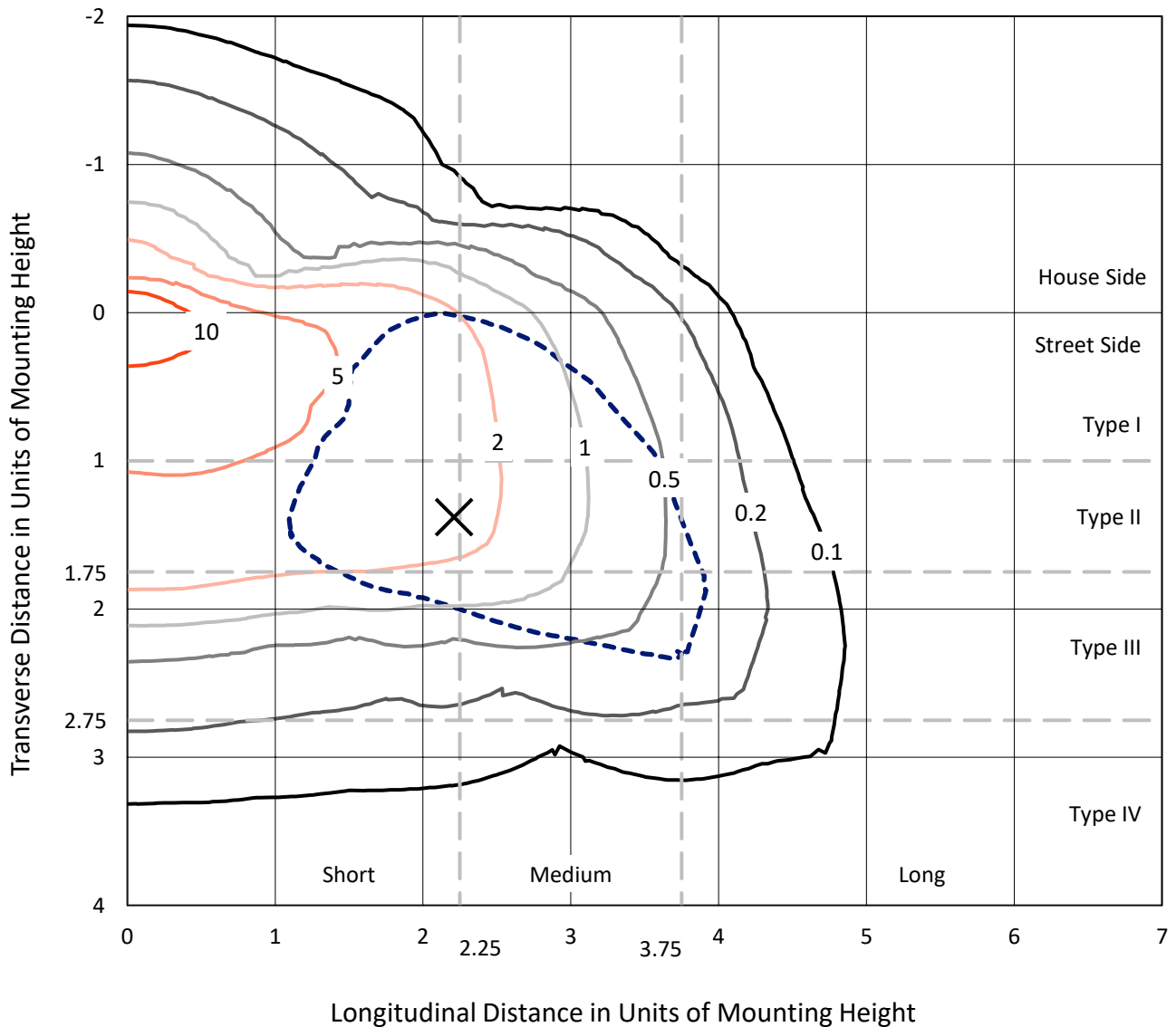
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

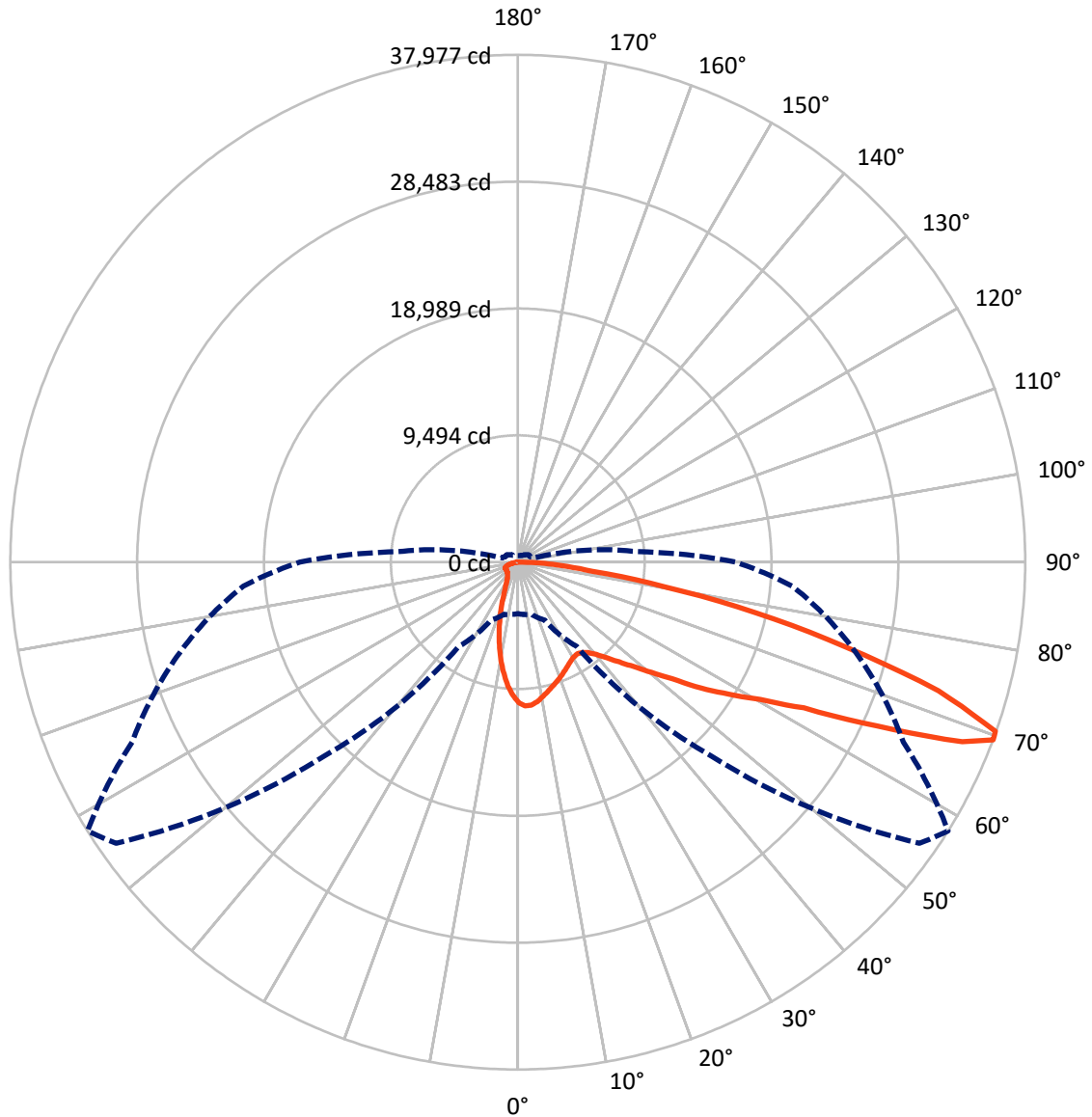
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	5581.6	0.0	5581.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32505.4	0.0	32505.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	38087.0	0.0	38087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.8	2.3
10°-20°	1962.7	5.2
20°-30°	2535.8	6.7
30°-40°	3293.6	8.6
40°-50°	4788.3	12.6
50°-60°	7640.6	20.1
60°-70°	10206.9	26.8
70°-80°	5883.9	15.4
80°-90°	881.3	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°	38087.0	100.0
0°-180°	38087.0	100.0

Coefficient of Utilization



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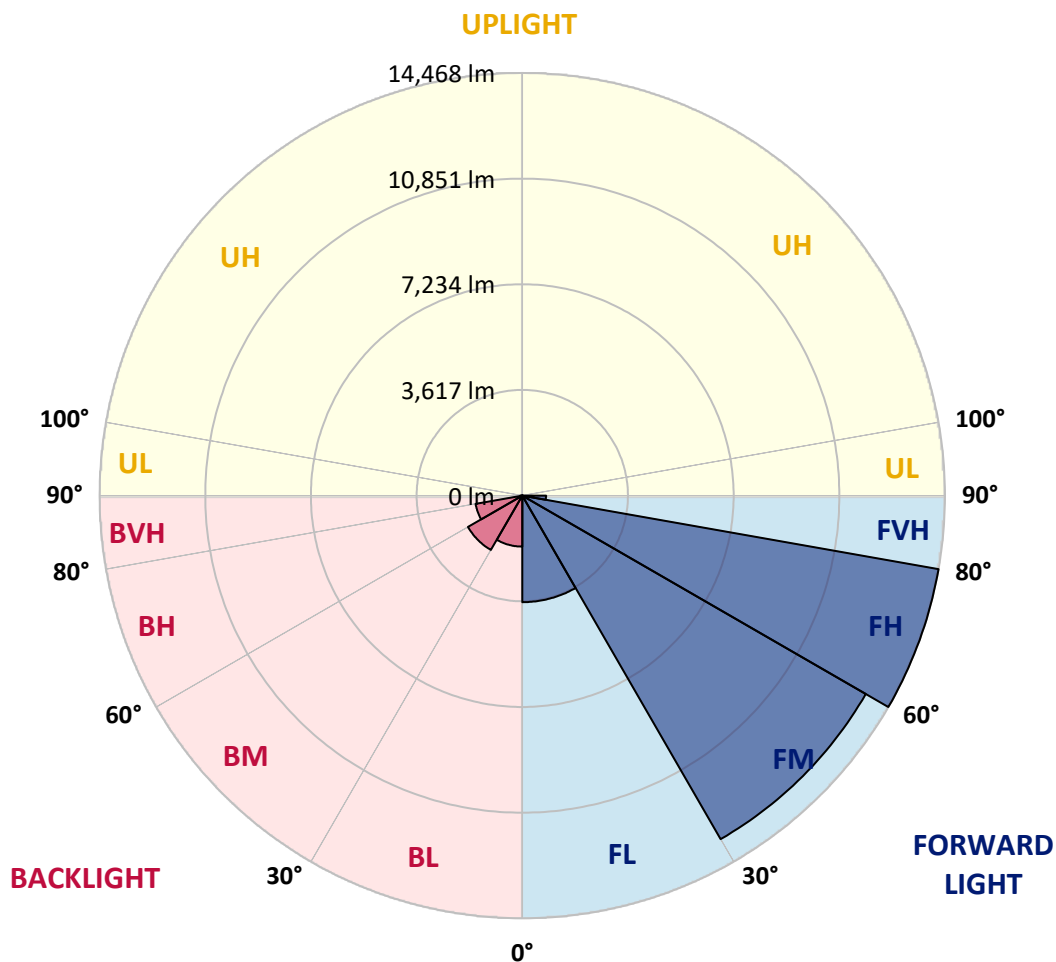
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3647.8	9.6			
FM	(30°-60°)	13576.0	35.6			
FH	(60°-80°)	14467.8	38.0			G5
FVH	(80°-90°)	813.8	2.1			G5
BL	(0°-30°)	1744.6	4.6	B3/2500		
BM	(30°-60°)	2146.5	5.6	B2/2500		
BH	(60°-80°)	1623.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	67.5	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0
2.5°	10915.9	10945.6	10937.1	10926.5	10909.5	10862.8	10786.3	10773.5	10724.7	10620.6	10491.0
5°	10748.0	10773.5	10775.7	10790.5	10811.8	10803.3	10748.0	10741.7	10669.5	10529.3	10312.6
7.5°	10172.4	10206.4	10280.7	10363.6	10437.9	10508.0	10525.0	10535.6	10491.0	10329.6	10040.7
10°	9524.6	9558.5	9592.5	9715.7	9898.4	10072.6	10217.0	10236.1	10246.8	10098.1	9745.5
12.5°	8806.6	8876.7	8948.9	9131.6	9375.9	9649.9	9904.8	9945.1	10017.4	9904.8	9490.6
15°	8197.0	8269.2	8373.3	8536.8	8832.1	9227.2	9586.2	9652.0	9794.3	9737.0	9252.7
17.5°	7774.3	7799.8	7872.0	8058.9	8377.5	8793.9	9273.9	9405.6	9632.9	9618.0	9048.8
20°	7440.8	7472.7	7517.3	7632.0	7963.3	8403.0	8982.9	9152.8	9460.8	9511.8	8847.0
22.5°	7300.6	7324.0	7317.6	7379.2	7604.4	8046.2	8687.7	8889.4	9307.9	9439.6	8660.0
25°	7309.1	7330.3	7298.5	7283.6	7417.4	7731.8	8379.7	8636.7	9184.7	9390.7	8490.1
27.5°	7451.4	7466.3	7406.8	7347.3	7358.0	7536.4	8124.8	8409.4	9080.6	9412.0	8347.8
30°	7642.6	7670.2	7632.0	7559.7	7481.2	7489.6	7961.2	8241.6	9031.8	9486.3	8279.8
32.5°	7889.0	7914.5	7897.5	7840.1	7738.2	7625.6	7920.8	8180.0	9036.0	9637.1	8265.0
35°	8148.1	8199.1	8226.7	8222.5	8139.6	7944.2	8080.2	8294.7	9138.0	9889.9	8352.0
37.5°	8441.3	8483.7	8602.7	8679.2	8602.7	8375.4	8439.1	8587.8	9363.1	10255.3	8543.2
40°	8725.9	8789.6	8963.8	9201.7	9172.0	8972.3	8987.2	9084.9	9760.3	10799.0	8917.1
42.5°	9023.3	9099.7	9403.5	9756.1	9826.2	9671.1	9711.5	9798.6	10325.3	11553.1	9558.5
45°	9405.6	9496.9	9870.8	10310.5	10586.6	10491.0	10605.7	10648.2	11081.5	12534.4	10403.9
47.5°	9898.4	10004.6	10465.5	11013.6	11404.4	11491.5	11691.2	11665.7	12018.3	13696.3	11500.0
50°	10728.9	10788.4	11223.9	11782.5	12319.9	12712.9	12929.5	12969.9	13180.2	14826.4	12725.6
52.5°	11716.6	11769.8	12084.1	12572.7	13246.0	14078.7	14613.9	14482.3	14533.2	16202.8	14159.4
55°	12827.6	12916.8	13116.4	13441.4	14314.4	15540.1	16614.9	16646.7	16081.7	17519.7	15533.7
57.5°	13687.8	13838.6	14180.6	14643.7	15750.4	17165.0	18609.4	18630.7	17908.5	18925.9	17050.3
60°	13254.5	13432.9	14214.6	15342.5	17634.4	20000.7	20992.7	20871.6	19686.3	20527.5	18900.4
62.5°	11385.3	11417.1	12553.6	14316.6	18214.3	23794.4	24540.0	24028.1	22059.0	22558.2	20780.3
65°	7368.6	7576.7	8477.4	10947.7	16309.0	25899.4	30755.1	29572.0	25385.4	24862.8	22354.2
67.5°	4651.8	4598.7	4972.6	6251.3	11217.5	24045.0	36059.1	35872.1	29735.6	26317.9	21978.3
69°	3857.4	3916.9	4044.3	4792.0	7719.1	20529.6	36685.7	37977.2	31844.8	26203.2	20612.5
70°	3498.4	3526.0	3659.9	4248.2	5956.0	17194.8	35657.6	37919.8	32673.2	25723.1	19622.6
72.5°	2776.2	2774.1	3003.5	3534.5	4452.2	9815.6	29278.9	32921.7	31747.1	23488.5	16213.4
75°	2109.3	2143.2	2396.0	2990.8	4101.7	5363.4	20431.9	25353.5	25355.6	18552.1	10117.2
77.5°	1520.9	1542.1	1837.4	2510.7	3863.8	4348.1	13609.2	18184.6	17094.9	8500.7	3179.8
80°	996.2	1009.0	1234.1	1988.2	3483.6	4101.7	8069.5	11130.4	8063.2	2255.8	1051.4
82.5°	545.9	609.6	754.1	1287.2	2795.3	3789.4	4904.6	5633.2	3024.7	1004.7	548.0
85°	274.0	291.0	424.8	751.9	1826.7	3135.2	3415.6	3230.8	1561.2	499.2	284.6
87.5°	80.7	102.0	176.3	291.0	741.3	1633.4	1901.1	1705.7	601.1	180.6	59.5
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°	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0	10525.0
2.5°	10437.9	10399.7	10229.8	10076.8	9936.6	9787.9	9662.6	9552.2	9562.8	9564.9	9452.3
5°	10200.0	10112.9	9790.1	9488.4	9233.6	8910.7	8634.5	8456.1	8366.9	8248.0	8290.4
7.5°	9877.2	9709.4	9261.2	8759.9	8290.4	7872.0	7417.4	7105.2	6905.5	6712.2	6737.7
10°	9543.7	9273.9	8621.8	7959.1	7351.6	6682.5	6102.6	5605.6	5236.0	5097.9	5006.6
12.5°	9201.7	8847.0	8018.6	7137.0	6298.0	5497.2	4675.2	4142.0	3734.2	3517.5	3545.2
15°	8889.4	8458.2	7389.8	6315.0	5225.3	4271.6	3451.7	2944.0	2659.4	2599.9	2633.9
17.5°	8600.6	8035.5	6801.4	5516.3	4244.0	3203.2	2593.6	2306.8	2192.1	2160.2	2158.1
20°	8303.2	7676.6	6140.8	4662.4	3307.3	2483.1	2128.4	1994.5	1973.3	1986.1	1988.2
22.5°	8001.6	7232.6	5461.1	3814.9	2633.9	2030.7	1860.7	1824.6	1841.6	1871.4	1875.6
25°	7723.3	6841.8	4806.9	3071.5	2102.9	1784.3	1701.4	1701.4	1739.7	1784.3	1786.4
27.5°	7493.9	6463.7	4154.8	2438.5	1760.9	1605.8	1578.2	1593.1	1646.2	1680.2	1682.3
30°	7304.9	6111.1	3538.8	1954.2	1548.5	1463.5	1457.1	1482.6	1520.9	1552.7	1554.9
32.5°	7162.5	5801.0	2963.1	1641.9	1401.9	1355.2	1353.1	1372.2	1393.4	1401.9	1410.4
35°	7107.3	5544.0	2436.4	1444.4	1304.2	1274.5	1274.5	1272.3	1280.8	1285.1	1289.3
37.5°	7151.9	5346.4	2028.5	1317.0	1232.0	1210.7	1198.0	1185.3	1181.0	1181.0	1183.1
40°	7341.0	5242.3	1724.8	1234.1	1181.0	1149.1	1125.8	1110.9	1096.0	1100.3	1104.5
42.5°	7742.4	5261.4	1518.7	1178.9	1136.4	1091.8	1057.8	1040.8	1030.2	1042.9	1040.8
45°	8381.8	5452.6	1387.1	1140.7	1091.8	1034.4	1002.6	985.6	985.6	1004.7	1011.1
47.5°	9276.0	5818.0	1317.0	1110.9	1057.8	989.8	958.0	945.2	949.5	981.3	983.5
50°	10367.8	6453.1	1304.2	1096.0	1040.8	958.0	921.9	909.1	919.7	953.7	958.0
52.5°	11572.2	7270.9	1365.8	1098.2	1026.0	938.9	892.1	873.0	883.6	911.2	919.7
55°	12999.6	8294.7	1525.1	1106.7	1004.7	928.2	870.9	828.4	841.2	860.3	862.4
57.5°	14456.8	9586.2	1805.5	1108.8	987.7	909.1	834.8	779.6	779.6	792.3	798.7
60°	16236.8	10992.3	2175.1	1110.9	989.8	881.5	785.9	724.3	715.8	722.2	724.3
62.5°	18004.0	12169.1	2236.7	1104.5	1011.1	853.9	732.8	669.1	654.2	652.1	647.9
65°	18783.6	11950.3	1833.1	1074.8	1034.4	836.9	690.3	616.0	590.5	582.0	582.0
67.5°	17513.4	10108.7	1378.6	1034.4	1019.6	819.9	650.0	571.4	541.7	524.7	524.7
69°	16319.6	8991.4	1238.4	1006.8	981.3	792.3	624.5	548.0	511.9	492.8	486.4
70°	15397.7	8222.5	1178.9	983.5	945.2	760.4	605.4	531.0	490.7	469.4	465.2
72.5°	12288.0	6451.0	1032.3	894.3	805.0	639.4	537.4	477.9	439.7	416.3	410.0
75°	7081.8	3496.3	856.0	777.4	647.9	497.0	454.6	416.3	386.6	365.3	359.0
77.5°	2179.3	1350.9	620.2	613.9	475.8	384.5	363.2	348.4	327.1	303.7	299.5
80°	917.6	688.2	420.6	414.2	316.5	267.6	261.3	259.1	250.6	231.5	225.2
82.5°	503.4	388.7	293.1	254.9	191.2	155.1	161.4	163.6	157.2	138.1	125.3
85°	246.4	212.4	142.3	114.7	87.1	55.2	53.1	63.7	59.5	42.5	46.7
87.5°	48.9	59.5	38.2	17.0	8.5	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)