

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: P454375

Luminaire Tested: **GALN-SA5C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454375
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-SA5C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 29184 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

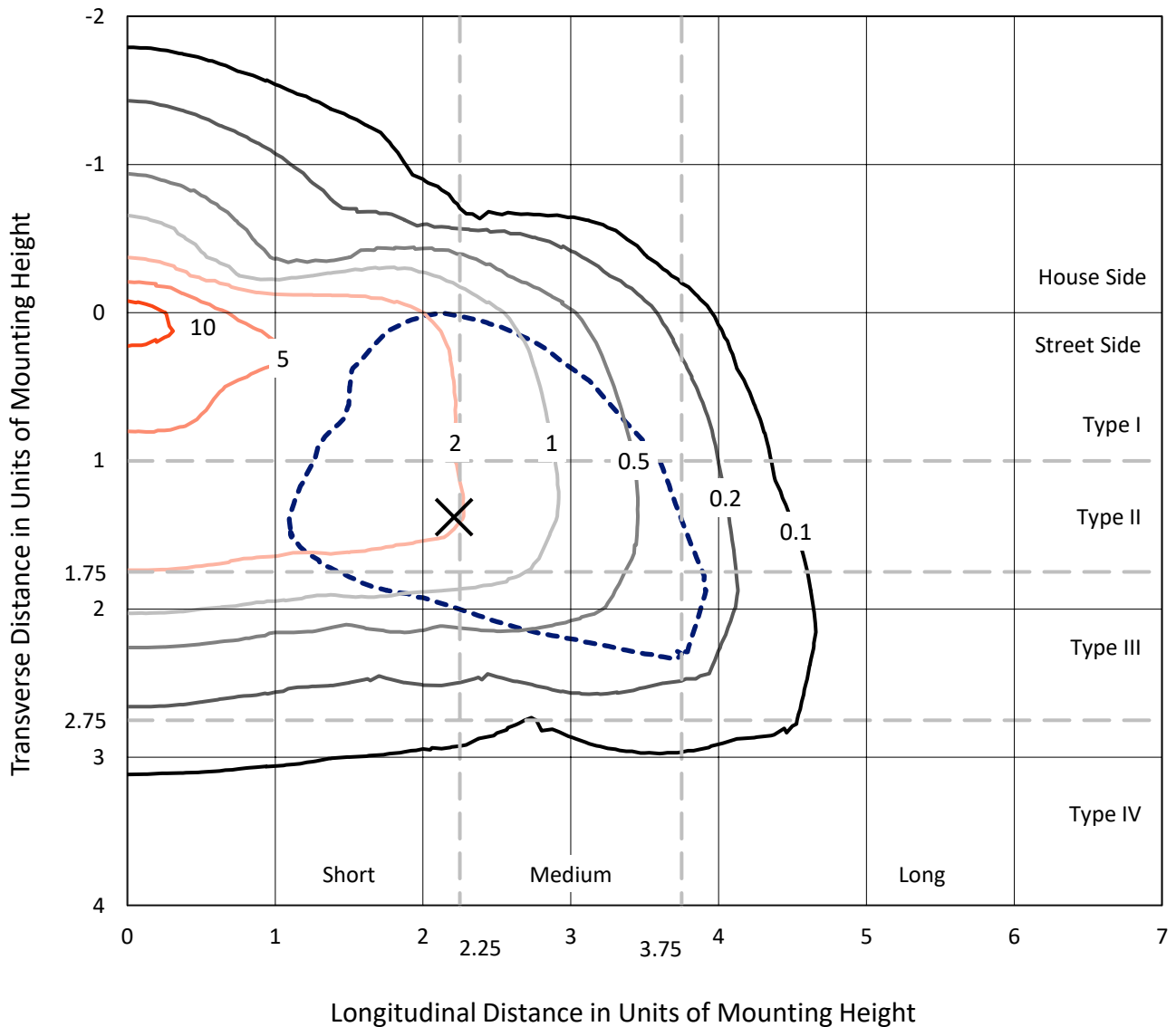
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

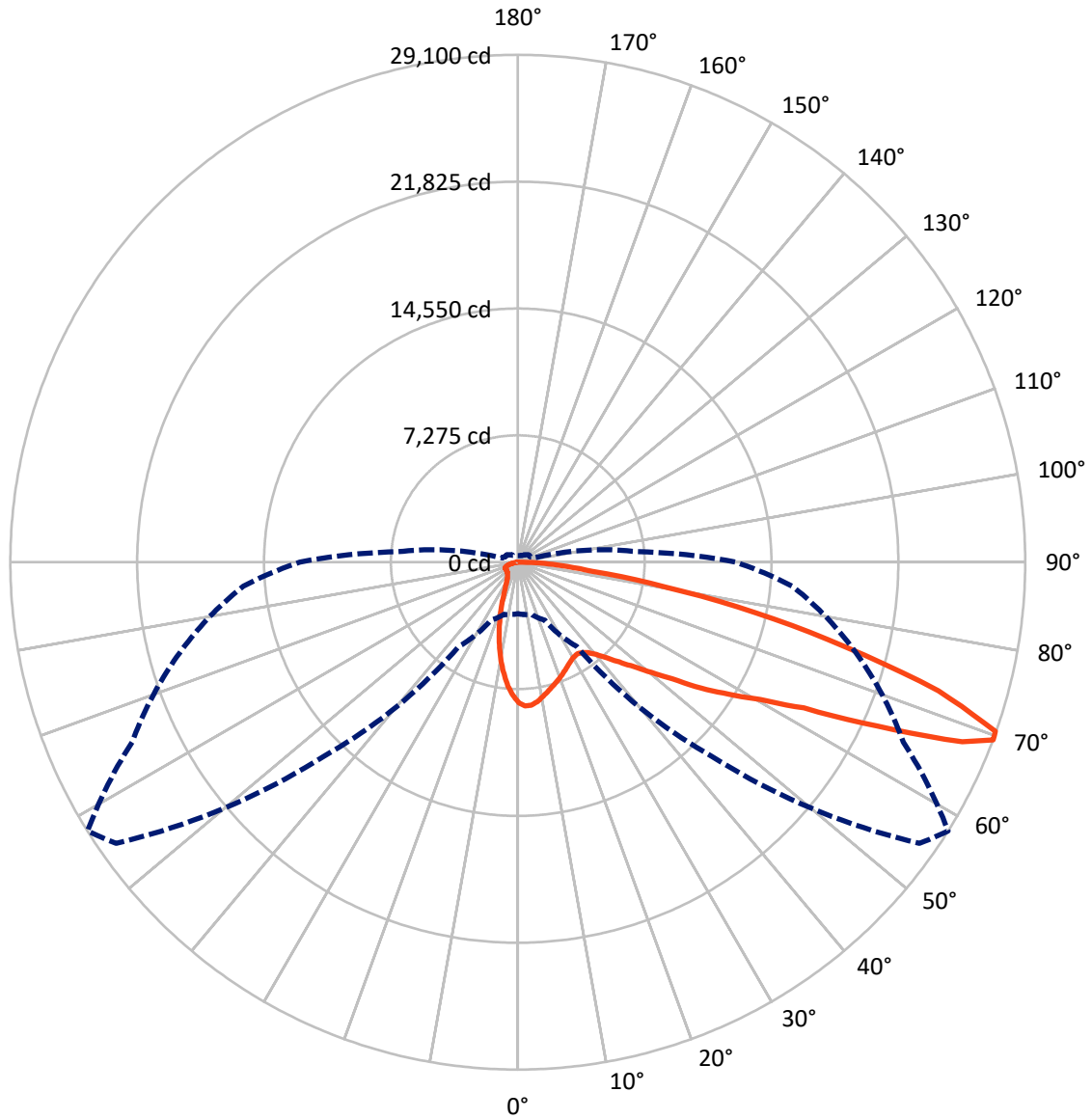
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	4276.9	0.0	4276.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24907.1	0.0	24907.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	29184.0	0.0	29184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.9	2.3
10°-20°	1503.9	5.2
20°-30°	1943.1	6.7
30°-40°	2523.7	8.6
40°-50°	3669.0	12.6
50°-60°	5854.6	20.1
60°-70°	7821.0	26.8
70°-80°	4508.5	15.4
80°-90°	675.3	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°	29184.0	100.0
0°-180°	29184.0	100.0

Coefficient of Utilization



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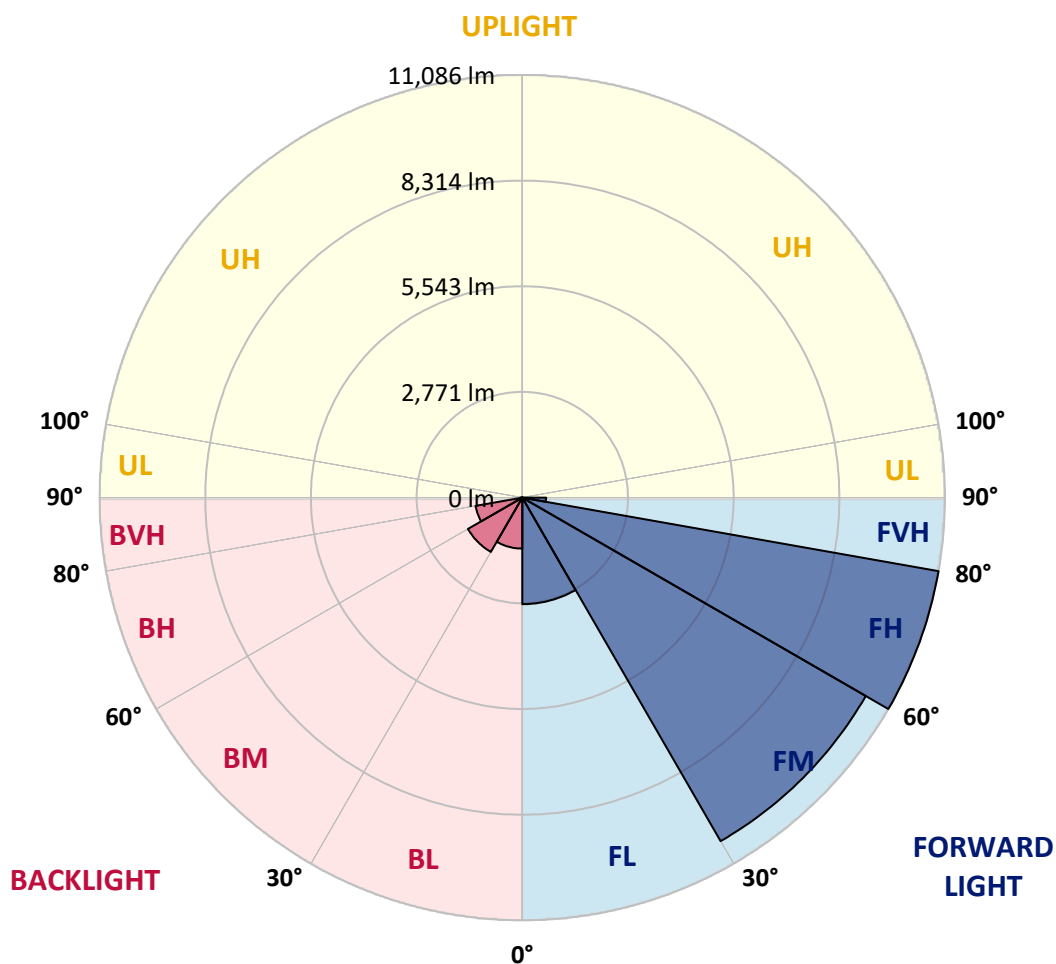
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2795.1	9.6			
FM	(30°-60°)	10402.6	35.6			
FH	(60°-80°)	11085.9	38.0			G4/12000
FVH	(80°-90°)	623.5	2.1			G4/750
BL	(0°-30°)	1336.8	4.6	B3/2500		
BM	(30°-60°)	1644.7	5.6	B2/2500		
BH	(60°-80°)	1243.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	51.7	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°	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7
2.5°	8364.2	8387.0	8380.5	8372.4	8359.3	8323.5	8264.9	8255.2	8217.7	8138.0	8038.7
5°	8235.6	8255.2	8256.8	8268.2	8284.5	8278.0	8235.6	8230.8	8175.4	8068.0	7902.0
7.5°	7794.6	7820.6	7877.6	7941.1	7998.0	8051.7	8064.7	8072.9	8038.7	7915.0	7693.7
10°	7298.2	7324.2	7350.2	7444.6	7584.6	7718.1	7828.7	7843.4	7851.5	7737.6	7467.4
12.5°	6748.0	6801.7	6857.1	6997.0	7184.2	7394.2	7589.5	7620.4	7675.8	7589.5	7272.1
15°	6280.9	6336.2	6416.0	6541.3	6767.6	7070.3	7345.4	7395.8	7504.9	7460.9	7089.8
17.5°	5957.0	5976.5	6031.9	6175.1	6419.2	6738.3	7106.1	7207.0	7381.2	7369.8	6933.6
20°	5701.5	5725.9	5760.1	5848.0	6101.9	6438.8	6883.1	7013.3	7249.3	7288.4	6778.9
22.5°	5594.1	5612.0	5607.1	5654.3	5826.8	6165.3	6656.9	6811.5	7132.1	7233.0	6635.7
25°	5600.6	5616.8	5592.4	5581.0	5683.6	5924.5	6420.9	6617.8	7037.7	7195.6	6505.5
27.5°	5709.6	5721.0	5675.4	5629.9	5638.0	5774.7	6225.6	6443.7	6958.0	7211.9	6396.5
30°	5856.1	5877.3	5848.0	5792.6	5732.4	5738.9	6100.2	6315.1	6920.5	7268.9	6344.4
32.5°	6044.9	6064.4	6051.4	6007.5	5929.3	5843.1	6069.3	6267.9	6923.8	7384.4	6333.0
35°	6243.5	6282.5	6303.7	6300.4	6237.0	6087.2	6191.4	6355.8	7001.9	7578.1	6399.7
37.5°	6468.1	6500.6	6591.8	6650.4	6591.8	6417.6	6466.4	6580.4	7174.5	7858.0	6546.2
40°	6686.2	6735.0	6868.5	7050.8	7028.0	6875.0	6886.4	6961.2	7478.8	8274.7	6832.7
42.5°	6914.0	6972.6	7205.4	7475.6	7529.3	7410.5	7441.4	7508.1	7911.8	8852.5	7324.2
45°	7207.0	7277.0	7563.4	7900.4	8111.9	8038.7	8126.6	8159.1	8491.2	9604.5	7972.0
47.5°	7584.6	7666.0	8019.2	8439.1	8738.6	8805.3	8958.3	8938.8	9209.0	10494.8	8811.8
50°	8221.0	8266.6	8600.2	9028.3	9440.1	9741.2	9907.2	9938.1	10099.2	11360.6	9750.9
52.5°	8977.8	9018.5	9259.4	9633.8	10149.7	10787.7	11197.9	11097.0	11136.0	12415.3	10849.6
55°	9829.1	9897.4	10050.4	10299.4	10968.4	11907.5	12731.1	12755.5	12322.5	13424.4	11902.6
57.5°	10488.2	10603.8	10865.8	11220.7	12068.6	13152.6	14259.4	14275.7	13722.3	14501.9	13064.7
60°	10156.2	10292.9	10891.9	11756.1	13512.3	15325.5	16085.6	15992.8	15084.6	15729.1	14482.4
62.5°	8723.9	8748.3	9619.1	10970.0	13956.7	18232.4	18803.6	18411.4	16902.6	17285.1	15922.8
65°	5646.1	5805.6	6495.7	8388.6	12496.7	19845.3	23566.0	22659.4	19451.4	19051.0	17128.8
67.5°	3564.4	3523.8	3810.2	4790.0	8595.3	18424.4	27630.1	27486.9	22784.7	20165.9	16840.8
69°	2955.7	3001.3	3098.9	3671.9	5914.7	15730.7	28110.2	29099.8	24401.0	20078.1	15794.2
70°	2680.7	2701.8	2804.4	3255.2	4563.8	13175.4	27322.5	29055.9	25035.7	19710.2	15035.8
72.5°	2127.3	2125.6	2301.4	2708.3	3411.4	7521.1	22434.8	25226.1	24326.1	17998.0	12423.5
75°	1616.2	1642.2	1835.9	2291.7	3142.9	4109.7	15655.9	19427.0	19428.6	14215.4	7752.3
77.5°	1165.4	1181.6	1407.9	1923.8	2960.6	3331.7	10428.0	13933.9	13098.9	6513.6	2436.5
80°	763.3	773.1	945.6	1523.4	2669.3	3142.9	6183.2	8528.6	6178.4	1728.5	805.7
82.5°	418.3	467.1	577.8	986.3	2141.9	2903.6	3758.1	4316.4	2317.7	769.9	419.9
85°	210.0	223.0	325.5	576.2	1399.7	2402.3	2617.2	2475.6	1196.3	382.5	218.1
87.5°	61.8	78.1	135.1	223.0	568.0	1251.6	1456.7	1307.0	460.6	138.3	45.6
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°	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7	8064.7
2.5°	7998.0	7968.7	7838.5	7721.3	7613.9	7500.0	7403.9	7319.3	7327.4	7329.1	7242.8
5°	7815.7	7749.0	7501.6	7270.5	7075.2	6827.8	6616.2	6479.5	6411.1	6320.0	6352.5
7.5°	7568.3	7439.8	7096.3	6712.2	6352.5	6031.9	5683.6	5444.3	5291.3	5143.2	5162.7
10°	7312.8	7106.1	6606.4	6098.6	5633.1	5120.4	4676.1	4295.2	4012.0	3906.2	3836.2
12.5°	7050.8	6778.9	6144.2	5468.7	4825.8	4212.2	3582.3	3173.8	2861.3	2695.3	2716.5
15°	6811.5	6481.1	5662.4	4838.8	4003.9	3273.1	2644.8	2255.9	2037.8	1992.2	2018.2
17.5°	6590.1	6157.2	5211.6	4226.9	3251.9	2454.4	1987.3	1767.6	1679.7	1655.3	1653.6
20°	6362.3	5882.1	4705.4	3572.6	2534.2	1902.7	1630.9	1528.3	1512.0	1521.8	1523.4
22.5°	6131.2	5542.0	4184.6	2923.2	2018.2	1556.0	1425.8	1398.1	1411.1	1433.9	1437.2
25°	5917.9	5242.5	3683.3	2353.5	1611.3	1367.2	1303.7	1303.7	1333.0	1367.2	1368.8
27.5°	5742.2	4952.8	3183.6	1868.5	1349.3	1230.5	1209.3	1220.7	1261.4	1287.4	1289.1
30°	5597.3	4682.6	2711.6	1497.4	1186.5	1121.4	1116.5	1136.1	1165.4	1189.8	1191.4
32.5°	5488.3	4445.0	2270.5	1258.1	1074.2	1038.4	1036.8	1051.4	1067.7	1074.2	1080.7
35°	5445.9	4248.0	1866.9	1106.8	999.3	976.6	976.6	974.9	981.4	984.7	988.0
37.5°	5480.1	4096.7	1554.4	1009.1	944.0	927.7	918.0	908.2	904.9	904.9	906.6
40°	5625.0	4016.9	1321.6	945.6	904.9	880.5	862.6	851.2	839.8	843.1	846.4
42.5°	5932.6	4031.6	1163.7	903.3	870.8	836.6	810.5	797.5	789.4	799.2	797.5
45°	6422.5	4178.0	1062.8	874.0	836.6	792.6	768.2	755.2	755.2	769.9	774.7
47.5°	7107.7	4458.0	1009.1	851.2	810.5	758.5	734.0	724.3	727.5	752.0	753.6
50°	7944.3	4944.6	999.3	839.8	797.5	734.0	706.4	696.6	704.8	730.8	734.0
52.5°	8867.2	5571.3	1046.5	841.5	786.1	719.4	683.6	668.9	677.1	698.2	704.8
55°	9960.9	6355.8	1168.6	848.0	769.9	711.3	667.3	634.8	644.5	659.2	660.8
57.5°	11077.4	7345.4	1383.5	849.6	756.8	696.6	639.6	597.3	597.3	607.1	612.0
60°	12441.4	8422.8	1666.7	851.2	758.5	675.5	602.2	555.0	548.5	553.4	555.0
62.5°	13795.5	9324.5	1713.9	846.4	774.7	654.3	561.5	512.7	501.3	499.7	496.4
65°	14392.9	9156.9	1404.6	823.6	792.6	641.3	529.0	472.0	452.5	446.0	446.0
67.5°	13419.5	7745.7	1056.3	792.6	781.2	628.3	498.0	437.8	415.0	402.0	402.0
69°	12504.8	6889.6	948.9	771.5	752.0	607.1	478.5	419.9	392.3	377.6	372.7
70°	11798.5	6300.4	903.3	753.6	724.3	582.7	463.9	406.9	376.0	359.7	356.4
72.5°	9415.7	4943.0	791.0	685.2	616.9	489.9	411.8	366.2	336.9	319.0	314.1
75°	5426.4	2679.0	655.9	595.7	496.4	380.9	348.3	319.0	296.2	279.9	275.1
77.5°	1669.9	1035.2	475.3	470.4	364.6	294.6	278.3	266.9	250.7	232.7	229.5
80°	703.1	527.3	322.3	317.4	242.5	205.1	200.2	198.6	192.1	177.4	172.5
82.5°	385.7	297.9	224.6	195.3	146.5	118.8	123.7	125.3	120.4	105.8	96.0
85°	188.8	162.8	109.0	87.9	66.7	42.3	40.7	48.8	45.6	32.6	35.8
87.5°	37.4	45.6	29.3	13.0	6.5	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)