

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: P531379

Luminaire Tested: **GALN-SA6C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19374 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): 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



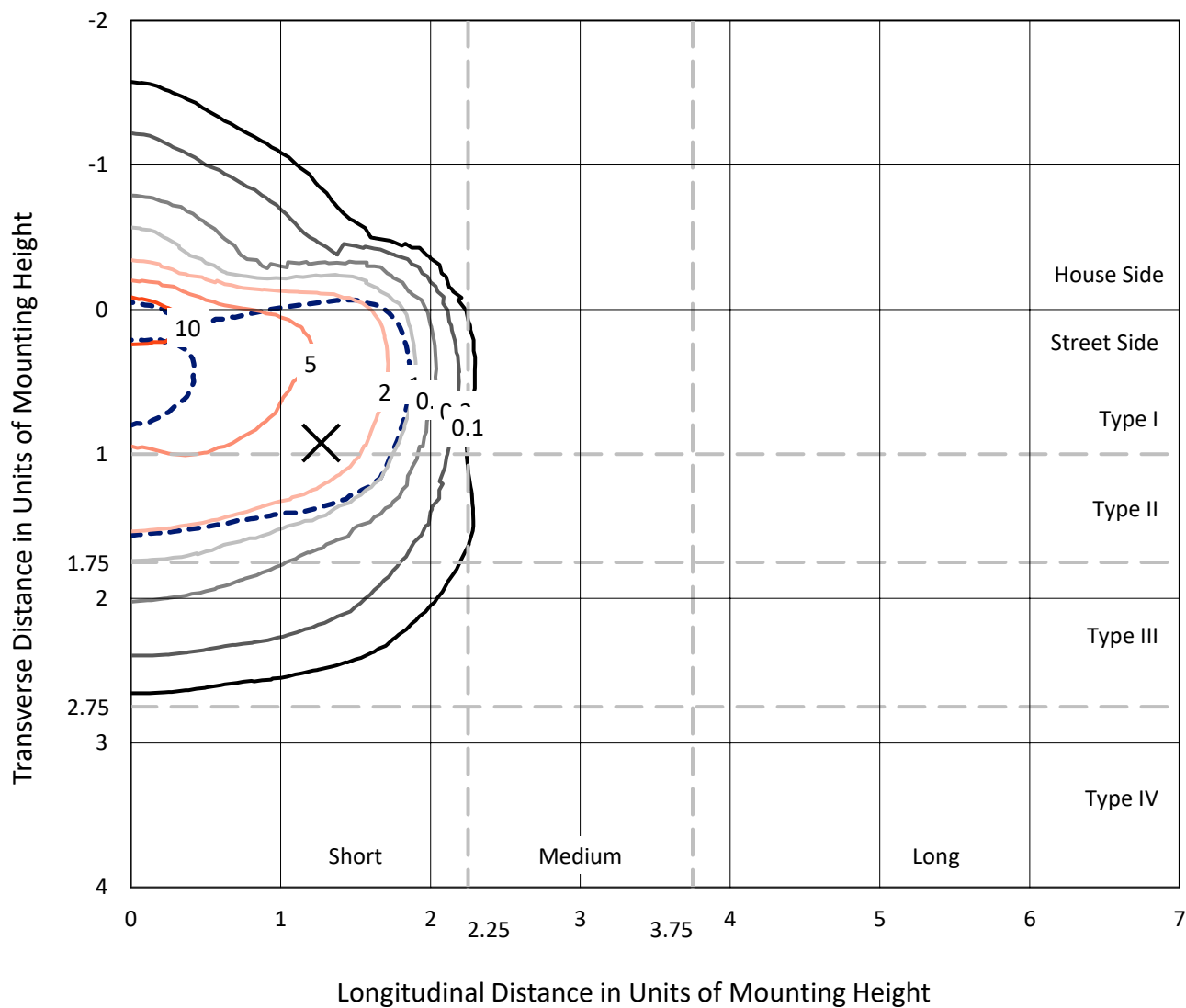
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

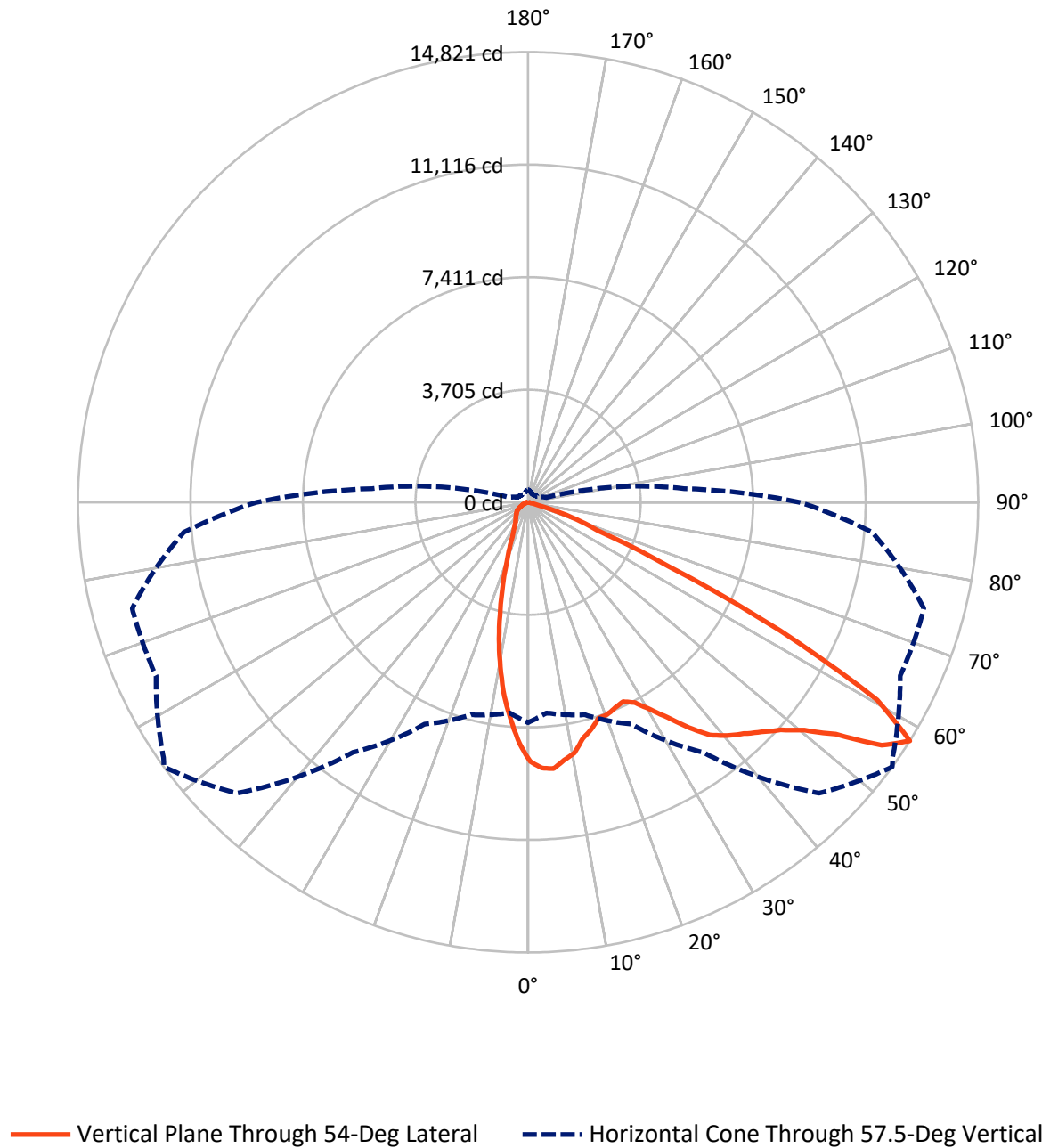
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.9	0.0	2737.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16636.1	0.0	16636.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	19374.0	0.0	19374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.2	3.7
10°-20°	1524.8	7.9
20°-30°	2020.6	10.4
30°-40°	2936.5	15.2
40°-50°	4354.5	22.5
50°-60°	5445.1	28.1
60°-70°	2147.8	11.1
70°-80°	213.8	1.1
80°-90°	16.6	0.1
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°	19374.0	100.0
0°-180°	19374.0	100.0

Coefficient of Utilization



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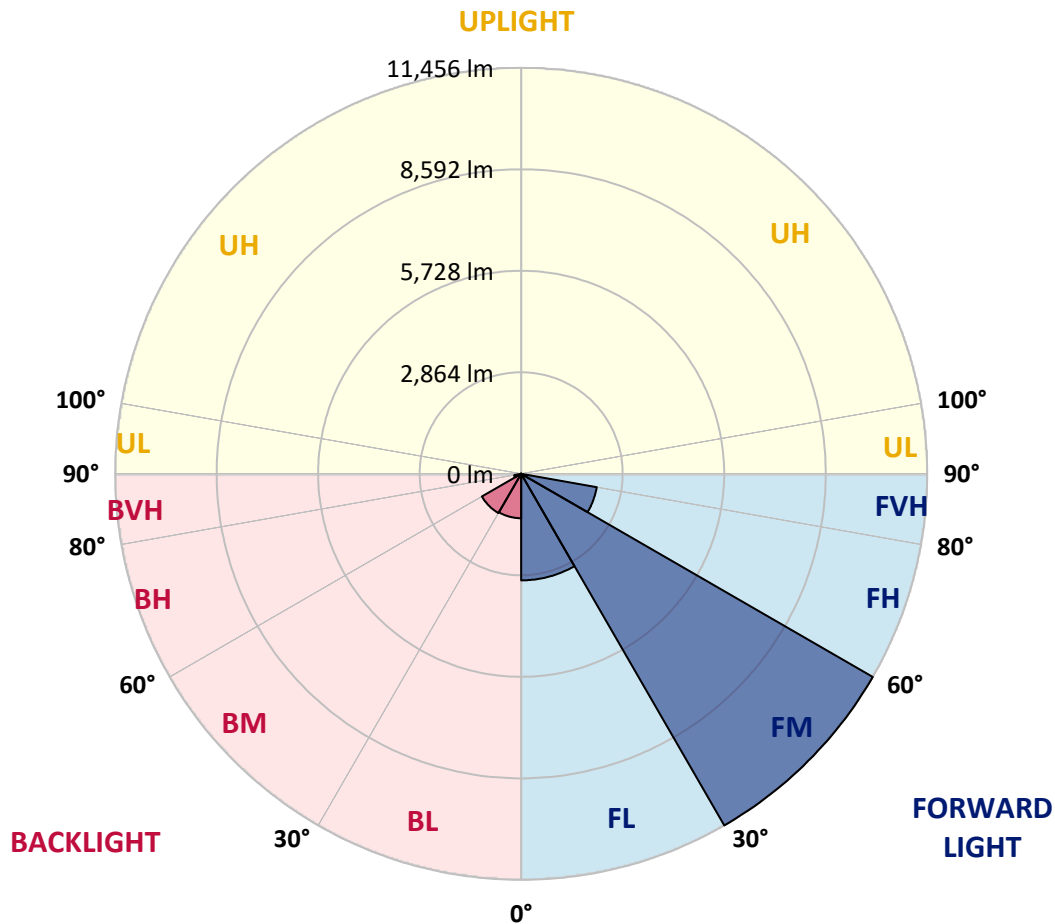
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.4	15.5			
FM	(30°-60°)	11455.8	59.1			
FH	(60°-80°)	2165.4	11.2			G2/5000
FVH	(80°-90°)	7.5	0.0			G0/10
BL	(0°-30°)	1252.2	6.5	B3/2500		
BM	(30°-60°)	1280.3	6.6	B2/2500		
BH	(60°-80°)	196.3	1.0	B1/500		G1/500
BVH	(80°-90°)	9.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5
2.5°	9031.7	8938.0	8945.2	8912.8	8869.5	8902.0	8761.5	8793.9	8790.3	8599.4	8473.3
5°	8804.7	8905.6	8801.1	8887.6	8804.7	8894.8	8808.3	8743.5	8639.0	8498.5	8264.3
7.5°	8419.2	8322.0	8350.8	8458.9	8476.9	8678.6	8570.5	8653.4	8610.2	8332.8	8012.1
10°	7644.7	7623.1	7767.2	7911.3	8087.8	8303.9	8386.8	8340.0	8307.5	8203.1	7774.4
12.5°	7050.2	7111.5	7107.9	7345.7	7644.7	7767.2	7983.3	7976.1	8156.2	7961.7	7551.0
15°	6484.6	6517.1	6668.4	6816.1	7147.5	7497.0	7763.6	7799.6	8015.7	7878.8	7378.1
17.5°	6138.8	6092.0	6210.8	6387.4	6726.0	7183.5	7479.0	7565.4	7860.8	7832.0	7179.9
20°	5796.5	5796.5	5893.8	6102.8	6412.6	6927.8	7453.7	7428.5	7860.8	7778.0	6967.4
22.5°	5681.3	5738.9	5764.1	5922.6	6290.1	6733.2	7345.7	7392.5	7922.1	7752.7	6873.7
25°	5839.8	5764.1	5771.3	5897.4	6243.3	6639.6	7266.4	7370.9	8033.7	7878.8	6798.1
27.5°	5865.0	5940.7	5962.3	6048.7	6279.3	6668.4	7464.5	7677.1	8311.1	8174.2	6819.7
30°	6084.8	6160.4	6156.8	6304.5	6463.0	6902.5	7907.7	7950.9	8884.0	8545.3	6953.0
32.5°	6351.3	6430.6	6455.8	6628.7	6754.8	7331.2	8448.0	8559.7	9435.2	9128.9	7302.4
35°	6682.8	6654.0	6769.2	6942.2	7212.4	7958.1	9107.3	9294.7	10029.6	9885.5	7662.7
37.5°	7097.1	7061.1	7172.7	7453.7	7821.2	8700.2	9716.2	9838.6	10461.9	10588.0	8329.2
40°	7388.9	7403.3	7741.9	8120.2	8509.3	9406.3	10101.6	10220.5	10764.5	11243.6	8833.5
42.5°	7875.2	7965.3	8372.4	8833.5	9240.6	9935.9	10415.1	10530.3	10905.0	11769.6	9514.4
45°	8581.3	8541.7	8992.0	9507.2	9957.5	10487.1	10786.1	10746.5	10987.9	12292.0	9943.1
47.5°	9489.2	9496.4	9795.4	10234.9	10703.3	10966.2	11200.4	11059.9	11160.8	12843.2	10515.9
50°	10108.8	10162.9	10404.2	10854.6	11088.7	11492.2	11791.2	11704.8	11672.4	13174.6	10876.2
52.5°	10267.3	10429.5	10559.2	11121.2	11668.8	12306.4	12688.3	12872.0	12295.6	13286.3	11333.7
55°	9071.3	9215.4	9672.9	10443.9	11888.5	13596.1	14122.1	14125.7	13109.8	13783.5	11654.3
57.5°	7252.0	6960.2	7241.2	8059.0	10051.2	13542.1	14821.0	14651.7	13516.9	13491.7	11376.9
60°	5014.8	4942.7	4960.8	5285.0	6956.6	10771.7	13207.1	13426.8	12446.9	11694.0	9006.4
62.5°	3973.6	3912.4	3833.1	3797.1	4319.5	6711.6	9316.3	9626.1	8703.8	7583.4	5339.0
65°	3112.6	3076.6	3087.4	3231.5	3227.9	3807.9	5094.0	4968.0	3977.2	2939.7	1678.8
67.5°	2100.3	2154.3	2197.6	2633.5	2856.8	2651.5	2460.6	2388.5	1293.3	544.0	371.1
70°	1181.6	1188.9	1235.7	1646.4	2168.8	2057.1	1696.8	1696.8	644.9	198.1	212.6
72.5°	644.9	623.2	580.0	709.7	965.5	979.9	756.5	659.3	190.9	129.7	118.9
75°	313.4	309.8	266.6	219.8	208.9	172.9	133.3	122.5	86.5	82.9	72.1
77.5°	64.8	61.2	32.4	32.4	36.0	39.6	50.4	50.4	61.2	61.2	50.4
80°	0.0	0.0	3.6	14.4	25.2	36.0	43.2	43.2	50.4	50.4	39.6
82.5°	0.0	0.0	3.6	10.8	21.6	32.4	39.6	43.2	50.4	54.0	43.2
85°	0.0	0.0	0.0	7.2	18.0	25.2	21.6	21.6	18.0	14.4	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5	8534.5
2.5°	8408.4	8401.2	8235.5	8141.8	7972.5	7824.8	7705.9	7619.5	7619.5	7565.4	7515.0
5°	8170.6	8109.4	7756.4	7529.4	7208.8	6971.0	6808.9	6682.8	6484.6	6538.7	6326.1
7.5°	7875.2	7720.3	7252.0	6906.1	6463.0	6124.4	5778.5	5472.3	5176.9	5043.6	5115.7
10°	7558.2	7288.0	6657.6	6110.0	5558.8	4939.1	4535.6	4045.7	3743.1	3725.1	3645.8
12.5°	7223.2	6917.0	6149.6	5393.1	4668.9	3923.2	3307.2	2849.6	2644.3	2417.3	2460.6
15°	6971.0	6517.1	5584.0	4672.5	3710.7	2957.7	2338.1	1985.0	1790.5	1736.4	1718.4
17.5°	6697.2	6210.8	5007.6	3905.2	2910.9	2129.1	1682.4	1513.1	1437.4	1437.4	1426.6
20°	6412.6	5865.0	4434.8	3191.9	2183.2	1588.7	1347.4	1293.3	1289.7	1286.1	1286.1
22.5°	6225.3	5468.7	3916.0	2536.2	1646.4	1271.7	1170.8	1149.2	1163.6	1206.9	1206.9
25°	6027.1	5086.8	3343.2	1956.2	1275.3	1091.6	1033.9	1048.4	1084.4	1124.0	1109.6
27.5°	5825.4	4838.3	2802.8	1534.7	1044.7	954.7	933.1	965.5	1005.1	1041.1	1030.3
30°	5778.5	4571.7	2291.2	1163.6	897.0	832.2	846.6	875.4	915.1	929.5	943.9
32.5°	5850.6	4362.7	1876.9	954.7	781.8	763.7	763.7	778.2	803.4	835.8	825.0
35°	6055.9	4243.8	1484.3	828.6	716.9	698.9	695.3	709.7	724.1	734.9	724.1
37.5°	6369.4	4150.2	1214.1	734.9	673.7	644.9	637.7	634.1	648.5	652.1	659.3
40°	6769.2	4200.6	1030.3	677.3	630.5	598.0	576.4	576.4	576.4	587.2	590.8
42.5°	7201.6	4269.1	889.8	644.9	590.8	551.2	529.6	522.4	529.6	544.0	540.4
45°	7655.5	4402.4	799.8	594.4	554.8	504.4	475.5	468.3	486.3	515.2	511.6
47.5°	8080.6	4593.3	731.3	562.0	518.8	471.9	435.9	428.7	461.1	500.8	504.4
50°	8505.7	4924.7	706.1	536.8	493.6	439.5	407.1	399.9	435.9	486.3	497.2
52.5°	8995.6	5281.4	688.1	504.4	464.7	414.3	378.3	371.1	410.7	475.5	479.1
55°	9316.3	5584.0	673.7	446.7	410.7	374.7	345.8	342.2	385.5	443.1	457.5
57.5°	8941.6	5162.5	623.2	389.1	349.5	331.4	306.2	306.2	342.2	396.3	407.1
60°	6780.1	3397.2	443.1	313.4	295.4	284.6	273.8	273.8	302.6	342.2	345.8
62.5°	3970.0	1830.1	284.6	252.2	252.2	241.4	223.4	223.4	252.2	273.8	277.4
65°	1178.0	587.2	230.6	216.2	212.6	194.5	176.5	172.9	194.5	205.3	201.7
67.5°	338.6	270.2	190.9	180.1	176.5	147.7	136.9	133.3	136.9	129.7	126.1
70°	201.7	183.7	147.7	151.3	133.3	108.1	97.3	93.7	86.5	75.7	68.4
72.5°	111.7	111.7	108.1	115.3	93.7	72.1	61.2	50.4	39.6	32.4	28.8
75°	68.4	72.1	75.7	79.3	61.2	46.8	39.6	25.2	14.4	7.2	7.2
77.5°	46.8	50.4	54.0	57.6	50.4	43.2	32.4	18.0	3.6	0.0	0.0
80°	36.0	39.6	46.8	50.4	54.0	57.6	43.2	18.0	3.6	0.0	0.0
82.5°	39.6	43.2	54.0	50.4	50.4	50.4	39.6	18.0	3.6	0.0	0.0
85°	7.2	10.8	18.0	18.0	25.2	32.4	25.2	7.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)