

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: P651453

Luminaire Tested: **GALN-SA6D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651453
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-SA6D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 22561.5 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

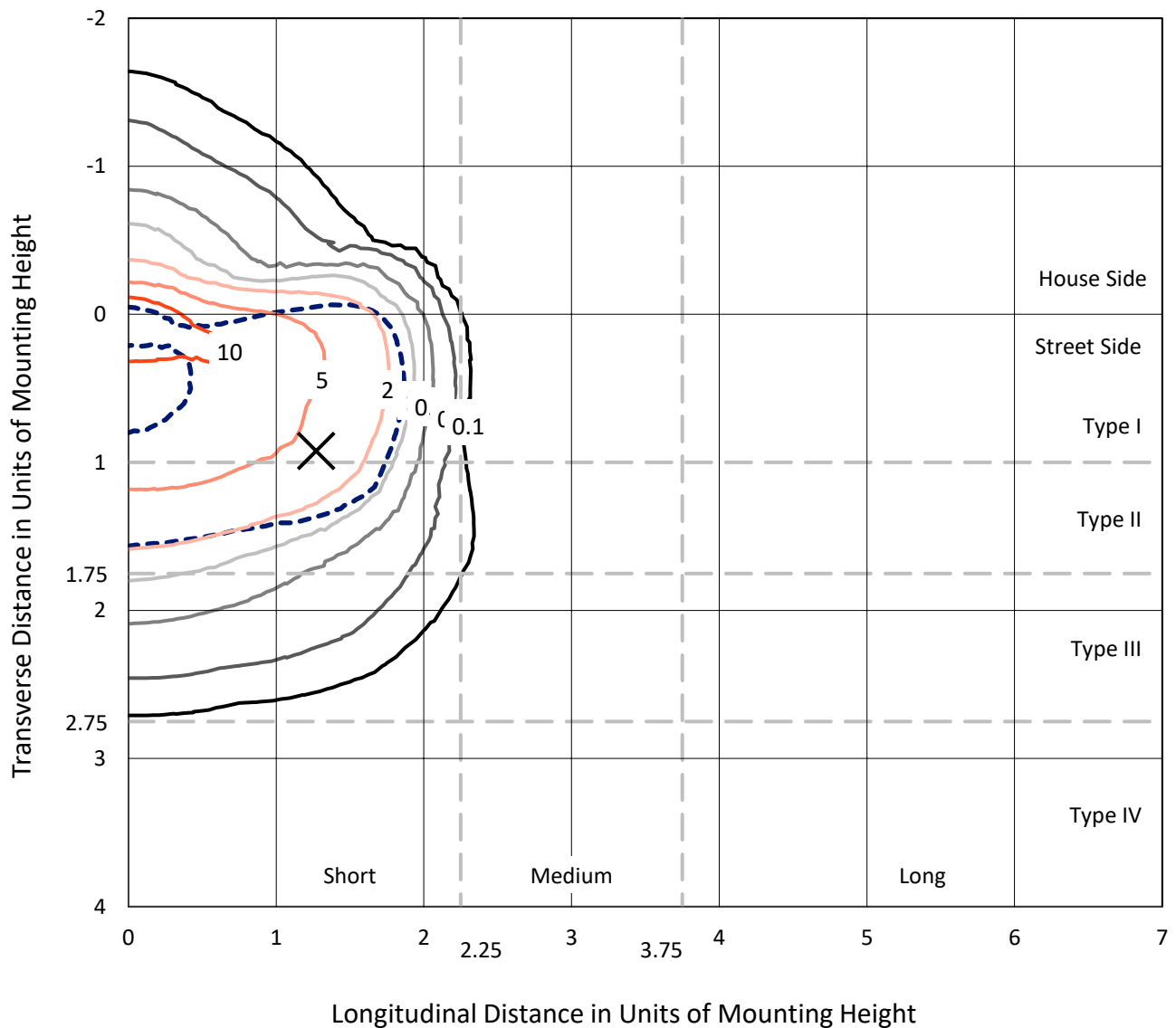
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA6D-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

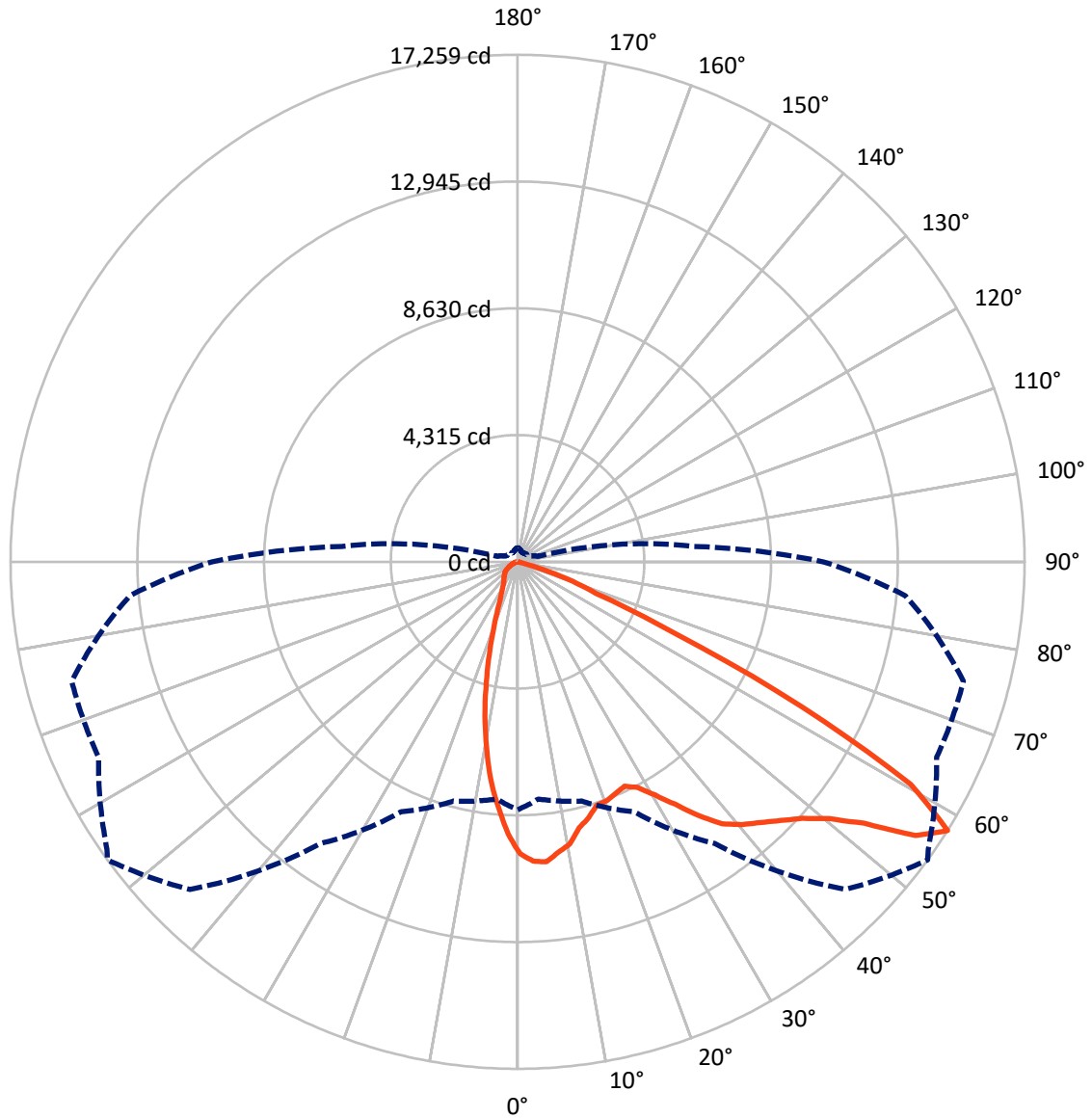
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P651453
CATALOG NUMBER: GALN-SA6D-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3188.3	0.0	3188.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19373.2	0.0	19373.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	22561.5	0.0	22561.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.7	3.7
10°-20°	1775.6	7.9
20°-30°	2353.1	10.4
30°-40°	3419.7	15.2
40°-50°	5070.9	22.5
50°-60°	6340.9	28.1
60°-70°	2501.2	11.1
70°-80°	249.0	1.1
80°-90°	19.4	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°	22561.5	100.0
0°-180°	22561.5	100.0



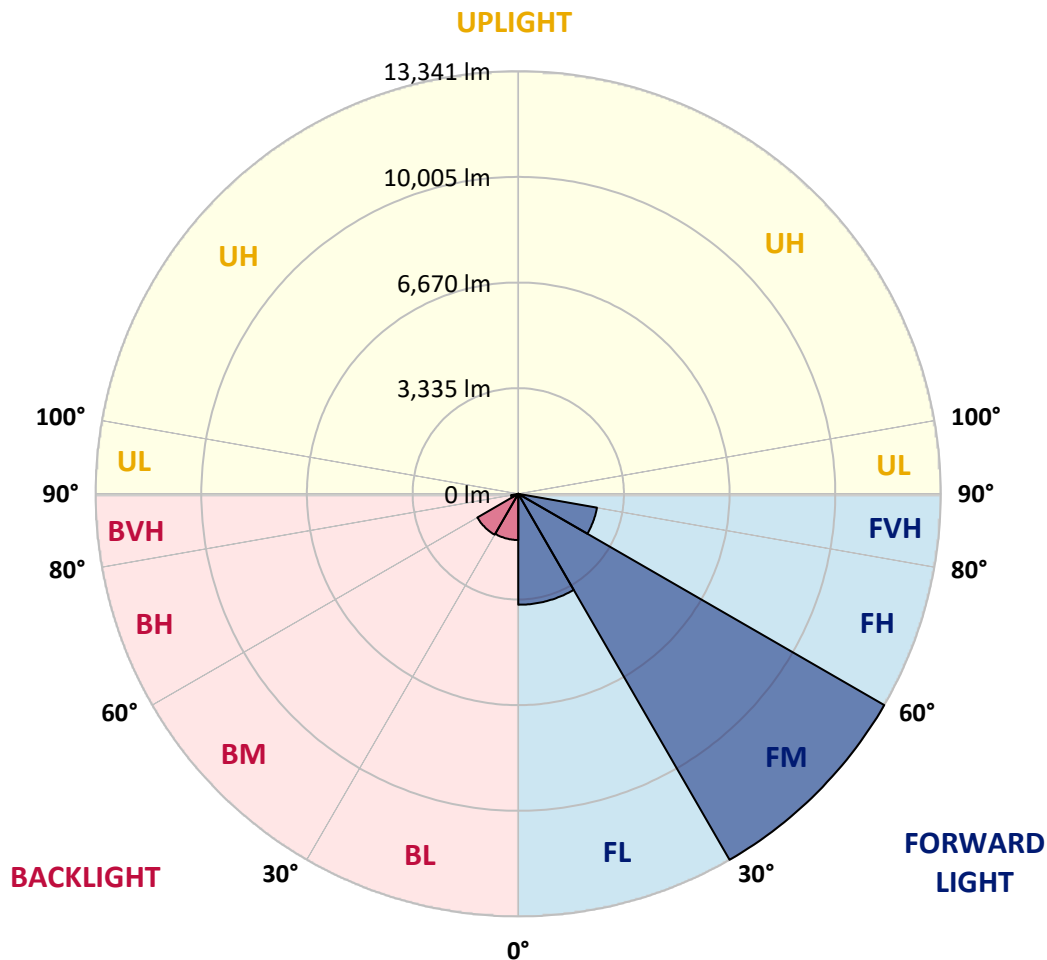
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3502.2	15.5			
FM (30°-60°)	13340.6	59.1			
FH (60°-80°)	2521.6	11.2			G2/5000
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1458.2	6.5	B3/2500		
BM (30°-60°)	1490.9	6.6	B2/2500		
BH (60°-80°)	228.6	1.0	B1/500		G1/500
BVH (80°-90°)	10.6	0.0			G1/100
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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CATALOG NUMBER: GALN-SA6D-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7
2.5°	10517.6	10408.6	10416.9	10379.1	10328.8	10366.6	10202.9	10240.7	10236.5	10014.1	9867.4
5°	10253.3	10370.8	10249.1	10349.8	10253.3	10358.2	10257.5	10182.0	10060.3	9896.7	9624.0
7.5°	9804.4	9691.1	9724.7	9850.5	9871.5	10106.5	9980.6	10077.1	10026.7	9703.7	9330.3
10°	8902.4	8877.3	9045.0	9212.9	9418.4	9670.2	9766.6	9712.1	9674.4	9552.7	9053.4
12.5°	8210.2	8281.5	8277.3	8554.2	8902.4	9045.0	9296.8	9288.3	9498.2	9271.6	8793.3
15°	7551.5	7589.3	7765.5	7937.5	8323.5	8730.4	9040.8	9082.8	9334.5	9175.1	8592.0
17.5°	7148.8	7094.3	7232.7	7438.2	7832.6	8365.4	8709.4	8810.1	9154.1	9120.6	8361.2
20°	6750.2	6750.2	6863.5	7106.8	7467.7	8067.5	8680.0	8650.7	9154.1	9057.7	8113.7
22.5°	6616.0	6683.1	6712.4	6897.0	7324.9	7841.0	8554.2	8608.7	9225.4	9028.3	8004.6
25°	6800.6	6712.4	6720.9	6867.7	7270.4	7731.9	8461.9	8583.6	9355.5	9175.1	7916.5
27.5°	6829.9	6918.1	6943.2	7043.9	7312.4	7765.5	8692.7	8940.2	9678.6	9519.1	7941.6
30°	7085.8	7174.0	7169.8	7341.8	7526.4	8038.2	9208.7	9259.0	10345.6	9951.2	8096.9
32.5°	7396.3	7488.6	7518.0	7719.4	7866.2	8537.4	9837.9	9968.0	10987.5	10630.9	8503.9
35°	7782.3	7748.7	7882.9	8084.4	8399.0	9267.4	10605.7	10823.8	11679.7	11511.9	8923.3
37.5°	8264.8	8222.8	8352.8	8680.0	9107.9	10131.6	11314.7	11457.4	12183.1	12330.0	9699.5
40°	8604.5	8621.3	9015.7	9456.2	9909.3	10953.9	11763.6	11902.1	12535.5	13093.5	10286.9
42.5°	9170.9	9275.8	9749.9	10286.9	10760.9	11570.6	12128.6	12262.9	12699.2	13706.0	11079.8
45°	9993.2	9947.0	10471.5	11071.3	11595.8	12212.5	12560.7	12514.6	12795.6	14314.3	11579.0
47.5°	11050.4	11058.8	11407.0	11918.8	12464.2	12770.5	13043.2	12879.6	12997.0	14956.2	12246.1
50°	11772.0	11834.9	12116.0	12640.4	12913.1	13383.0	13731.2	13630.5	13592.7	15342.2	12665.6
52.5°	11956.6	12145.4	12296.4	12950.9	13588.5	14331.1	14775.8	14989.8	14318.5	15472.2	13198.4
55°	10563.7	10731.6	11264.4	12162.1	13844.5	15833.0	16445.6	16449.7	15266.7	16051.2	13571.8
57.5°	8445.2	8105.3	8432.5	9384.9	11704.9	15770.1	17259.4	17062.3	15740.7	15711.4	13248.7
60°	5839.8	5756.0	5776.9	6154.5	8101.1	12543.9	15380.0	15635.9	14494.7	13617.9	10488.2
62.5°	4627.4	4556.1	4463.8	4421.8	5030.2	7815.8	10849.0	11209.9	10135.8	8831.1	6217.4
65°	3624.7	3582.7	3595.4	3763.1	3759.0	4434.4	5932.2	5785.3	4631.6	3423.4	1955.0
67.5°	2445.9	2508.8	2559.2	3066.8	3326.8	3087.7	2865.4	2781.4	1506.1	633.5	432.1
70°	1376.0	1384.5	1439.0	1917.2	2525.6	2395.5	1976.0	1976.0	750.9	230.8	247.5
72.5°	750.9	725.8	675.4	826.5	1124.3	1141.2	881.0	767.7	222.4	151.0	138.4
75°	365.0	360.8	310.4	255.9	243.3	201.3	155.2	142.6	100.7	96.5	83.9
77.5°	75.5	71.3	37.8	37.8	42.0	46.2	58.7	58.7	71.3	71.3	58.7
80°	0.0	0.0	4.2	16.8	29.4	42.0	50.4	50.4	58.7	58.7	46.2
82.5°	0.0	0.0	4.2	12.6	25.1	37.8	46.2	50.4	58.7	62.9	50.4
85°	0.0	0.0	0.0	8.4	20.9	29.4	25.1	25.1	20.9	16.8	8.4
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°	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7	9938.7
2.5°	9791.8	9783.4	9590.4	9481.3	9284.2	9112.2	8973.7	8873.1	8873.1	8810.1	8751.4
5°	9514.9	9443.6	9032.4	8768.2	8394.8	8117.9	7929.1	7782.3	7551.5	7614.4	7366.9
7.5°	9170.9	8990.5	8445.2	8042.4	7526.4	7132.0	6729.3	6372.7	6028.6	5873.4	5957.3
10°	8801.7	8487.0	7752.9	7115.2	6473.3	5751.8	5281.9	4711.3	4358.9	4338.0	4245.6
12.5°	8411.6	8054.9	7161.4	6280.3	5437.1	4568.6	3851.3	3318.5	3079.3	2815.1	2865.4
15°	8117.9	7589.3	6502.7	5441.3	4321.1	3444.3	2722.7	2311.6	2085.1	2022.1	2001.2
17.5°	7799.0	7232.7	5831.5	4547.7	3389.8	2479.4	1959.2	1762.1	1673.9	1673.9	1661.3
20°	7467.7	6829.9	5164.4	3717.1	2542.3	1850.1	1569.1	1506.1	1501.9	1497.7	1497.7
22.5°	7249.5	6368.5	4560.3	2953.5	1917.2	1480.9	1363.4	1338.3	1355.1	1405.4	1405.4
25°	7018.7	5923.8	3893.2	2278.0	1485.1	1271.2	1204.1	1220.8	1262.8	1308.9	1292.1
27.5°	6783.8	5634.3	3263.9	1787.2	1216.7	1111.7	1086.6	1124.3	1170.5	1212.5	1199.9
30°	6729.3	5323.9	2668.2	1355.1	1044.6	969.1	985.9	1019.5	1065.6	1082.4	1099.2
32.5°	6813.2	5080.5	2185.8	1111.7	910.4	889.4	889.4	906.2	935.5	973.3	960.8
35°	7052.3	4942.1	1728.4	964.9	834.9	813.9	809.7	826.5	843.3	855.8	843.3
37.5°	7417.3	4833.0	1413.8	855.8	784.5	750.9	742.6	738.4	755.1	759.3	767.7
40°	7882.9	4891.7	1199.9	788.7	734.2	696.4	671.3	671.3	671.3	683.8	688.0
42.5°	8386.4	4971.4	1036.2	750.9	688.0	641.9	616.7	608.3	616.7	633.5	629.3
45°	8915.0	5126.7	931.3	692.2	646.1	587.4	553.8	545.4	566.3	599.9	595.8
47.5°	9410.0	5349.0	851.7	654.5	604.1	549.6	507.6	499.2	537.0	583.1	587.4
50°	9905.0	5734.9	822.2	625.1	574.7	511.8	474.1	465.7	507.6	566.3	578.9
52.5°	10475.7	6150.3	801.3	587.4	541.2	482.5	440.5	432.1	478.3	553.8	558.0
55°	10849.0	6502.7	784.5	520.2	478.3	436.3	402.8	398.5	448.9	516.0	532.8
57.5°	10412.8	6011.9	725.8	453.1	407.0	385.9	356.6	356.6	398.5	461.5	474.1
60°	7895.6	3956.1	516.0	365.0	344.1	331.4	318.8	318.8	352.4	398.5	402.8
62.5°	4623.2	2131.2	331.4	293.7	293.7	281.1	260.1	260.1	293.7	318.8	323.0
65°	1371.8	683.8	268.5	251.7	247.5	226.6	205.5	201.3	226.6	239.1	235.0
67.5°	394.3	314.6	222.4	209.7	205.5	172.0	159.5	155.2	159.5	151.0	146.8
70°	235.0	214.0	172.0	176.2	155.2	125.9	113.3	109.1	100.7	88.1	79.7
72.5°	130.0	130.0	125.9	134.2	109.1	83.9	71.3	58.7	46.2	37.8	33.6
75°	79.7	83.9	88.1	92.3	71.3	54.5	46.2	29.4	16.8	8.4	8.4
77.5°	54.5	58.7	62.9	67.1	58.7	50.4	37.8	20.9	4.2	0.0	0.0
80°	42.0	46.2	54.5	58.7	62.9	67.1	50.4	20.9	4.2	0.0	0.0
82.5°	46.2	50.4	62.9	58.7	58.7	58.7	46.2	20.9	4.2	0.0	0.0
85°	8.4	12.6	20.9	20.9	29.4	37.8	29.4	8.4	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)