

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: P651442

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28779.9 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

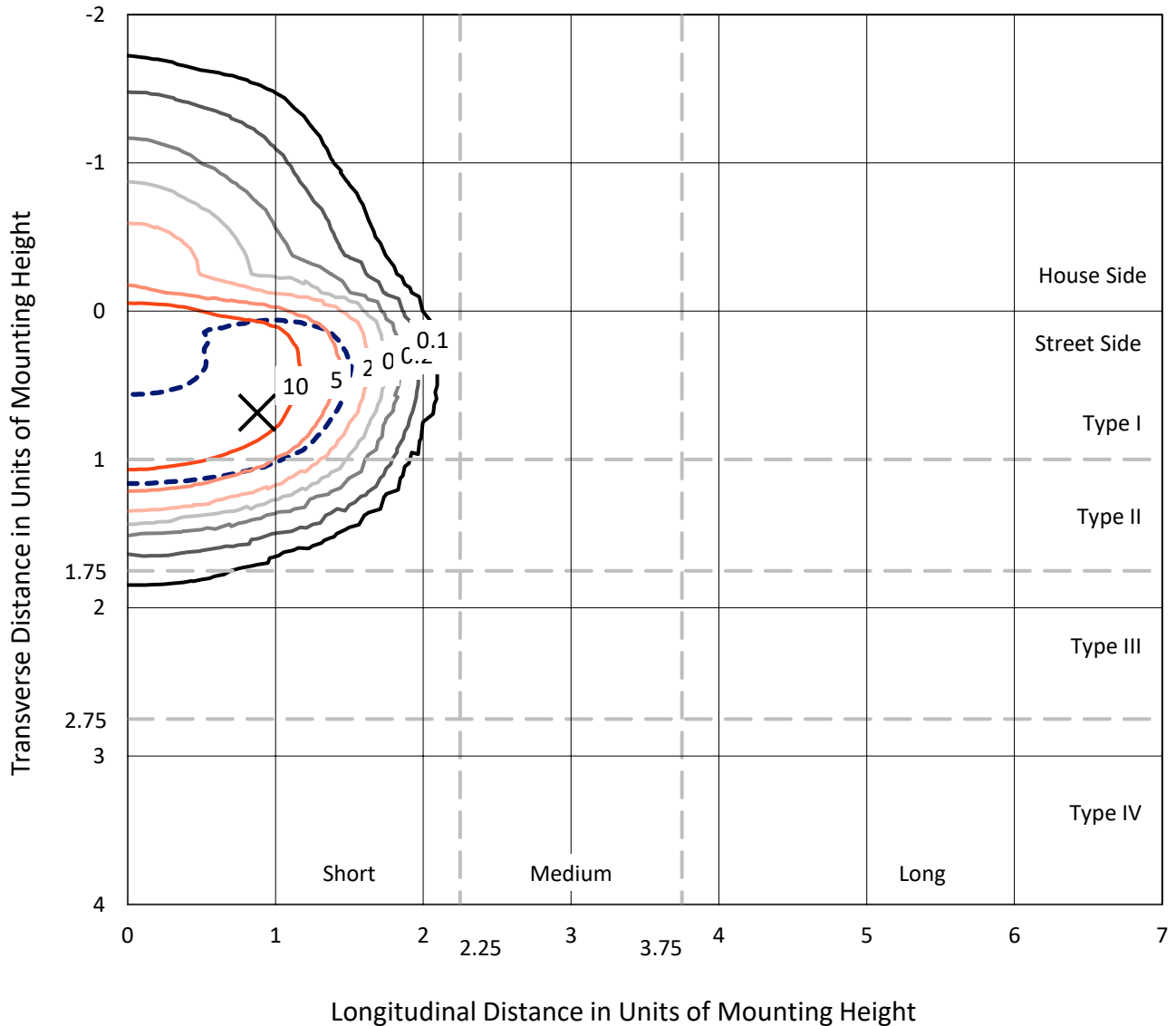
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

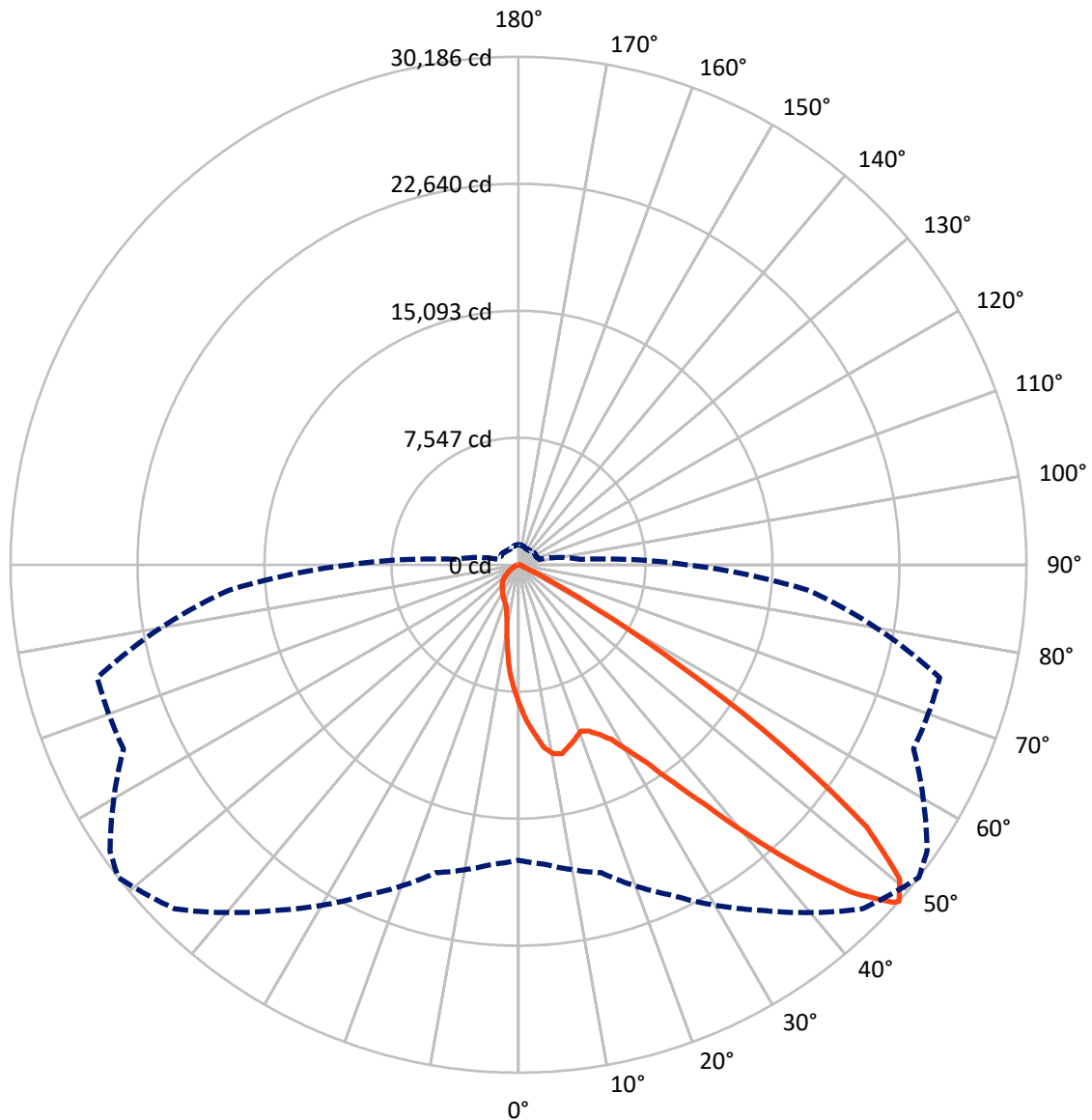
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3504.2	0.0	3504.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25275.7	0.0	25275.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	28779.9	0.0	28779.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.7	2.6
10°-20°	1988.0	6.9
20°-30°	3394.3	11.8
30°-40°	6250.7	21.7
40°-50°	9707.3	33.7
50°-60°	5842.1	20.3
60°-70°	675.7	2.3
70°-80°	130.8	0.5
80°-90°	30.2	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°	28779.9	100.0
0°-180°	28779.9	100.0



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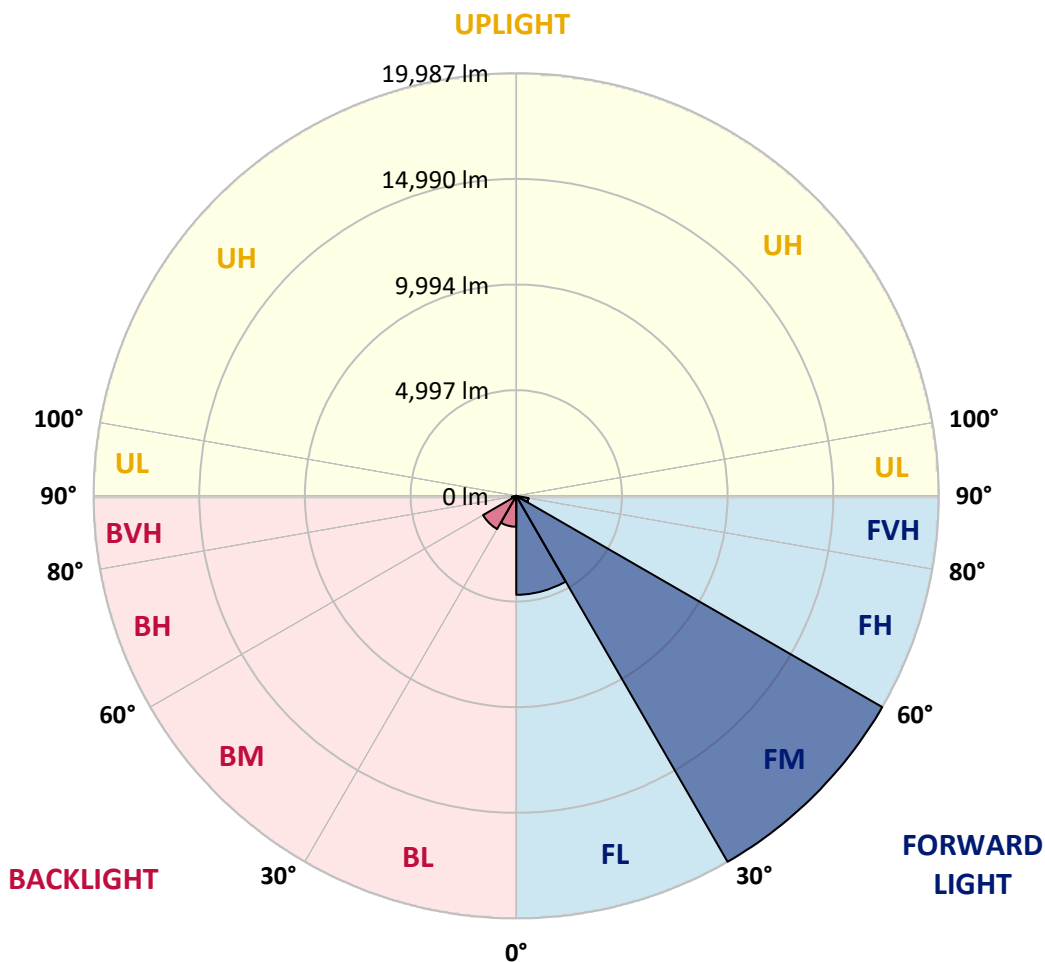
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4679.2	16.3			
FM (30°-60°)	19987.1	69.4			
FH (60°-80°)	595.0	2.1			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1463.8	5.1	B3/2500		
BM (30°-60°)	1813.0	6.3	B2/2500		
BH (60°-80°)	211.5	0.7	B1/500		G1/500
BVH (80°-90°)	15.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2
2.5°	10073.2	9842.5	9863.4	9712.5	9624.3	9481.7	9288.7	9250.9	9041.2	8755.9	8466.3
5°	10979.4	10924.9	10996.2	10778.1	10786.4	10551.5	10098.4	10106.8	9624.3	9158.7	8709.7
7.5°	11038.2	10912.3	10983.6	11176.6	11289.9	11248.0	10992.0	10769.7	10312.3	9628.5	8974.1
10°	9884.4	10123.5	10199.1	10518.0	10971.0	11449.3	11419.9	11432.6	11050.7	10157.1	9200.5
12.5°	9192.2	9032.8	9288.7	9481.7	10165.5	11092.7	11516.5	11608.7	11638.1	10669.0	9427.1
15°	8877.5	8877.5	8919.5	8974.1	9469.1	10325.0	11189.2	11457.7	12091.2	11340.2	9783.8
17.5°	9074.7	9066.3	9125.0	9011.8	9196.4	9855.1	10887.2	11193.4	12598.9	11999.0	10064.8
20°	9674.7	9704.0	9666.3	9339.1	9351.6	9846.7	10551.5	11034.0	12942.9	12569.5	10438.2
22.5°	10509.6	10526.3	10312.3	9955.8	9850.9	10094.2	10744.5	11113.7	13219.8	13253.4	10551.5
25°	11474.5	11407.4	11365.4	10861.9	10543.1	10752.9	11180.8	11394.8	13391.8	13840.8	10874.6
27.5°	12812.8	12678.6	12422.7	11973.7	11738.8	11441.0	11747.2	12099.6	13882.6	14663.0	11226.9
30°	14788.9	14671.4	14172.2	13593.2	12976.5	12682.8	12779.2	12972.3	14767.9	15615.4	11692.7
32.5°	17763.4	17515.9	16794.3	15690.9	14851.8	14042.1	14016.9	14222.5	15560.9	16932.8	12246.5
35°	21040.1	20964.5	19903.1	18766.2	17142.5	15892.3	15913.2	16022.3	17079.6	18661.3	12972.3
37.5°	23217.5	23632.9	22957.4	21736.5	20373.0	18585.8	18132.6	18170.4	19164.7	20708.6	14281.3
40°	24899.9	24547.4	24627.2	24341.9	23410.5	22193.8	21191.1	20994.0	21577.1	22974.2	15581.8
42.5°	24165.7	24182.5	24673.3	25348.7	25579.5	25491.5	24467.7	24094.3	23641.3	24828.6	16819.5
45°	22093.2	22525.3	23163.0	24950.2	26519.3	27991.9	27790.5	27169.6	25067.7	26297.0	17532.7
47.5°	18787.1	18770.4	19815.1	22139.2	25625.7	29074.3	29989.0	29552.6	26078.8	26133.3	17385.8
48°	17566.3	17868.3	18946.6	21682.0	25059.3	28914.9	30186.1	29636.5	25906.8	25915.2	17260.0
50°	12984.9	12930.3	14272.9	17629.2	22382.6	27169.6	29355.4	29783.3	25902.5	24811.8	16379.0
52.5°	6859.5	7094.5	8072.0	11084.3	15825.2	22235.8	25894.2	26561.3	24988.0	23007.7	15111.9
55°	2915.8	2634.8	3385.7	5005.1	8902.7	14856.0	18996.9	20482.1	21128.2	20360.4	13219.8
57.5°	1040.5	1136.9	1308.9	1883.8	3742.3	8130.7	11327.7	12481.4	14637.9	14939.9	9007.6
60°	667.1	679.7	734.2	864.3	1405.5	3134.0	5374.3	6293.1	7270.7	7505.6	4203.8
62.5°	516.0	520.2	545.4	566.4	667.1	1216.7	2018.0	2391.4	2483.7	2135.5	1103.4
65°	432.1	436.3	444.7	444.7	474.1	570.6	704.8	776.2	755.2	746.8	625.1
67.5°	331.4	339.8	356.6	356.6	373.4	348.3	390.1	415.4	469.9	570.6	532.9
70°	260.1	264.3	276.9	285.3	285.3	251.7	281.1	306.3	344.1	423.8	419.6
72.5°	201.4	209.7	218.2	218.2	205.5	172.0	201.4	222.4	247.5	293.7	285.3
75°	155.2	155.2	159.5	130.0	100.7	88.1	121.7	146.8	184.6	193.0	159.5
77.5°	42.0	46.2	42.0	37.8	42.0	62.9	79.7	92.3	117.5	117.5	104.9
80°	0.0	4.2	12.6	25.1	42.0	58.7	71.3	79.7	92.3	100.7	96.5
82.5°	0.0	4.2	12.6	25.1	37.8	46.2	62.9	67.1	75.5	88.1	88.1
85°	0.0	4.2	8.4	16.8	25.1	29.4	29.4	25.1	25.1	20.9	16.8
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	12.6	12.6	12.6	12.6	12.6
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°	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2	8311.2
2.5°	8353.1	8223.0	8025.8	7715.4	7417.5	7224.5	7039.9	6834.4	6721.1	6712.7	6649.8
5°	8453.8	8160.1	7690.2	7157.4	6586.8	6096.0	5600.9	5277.9	4988.4	4828.9	4799.6
7.5°	8508.3	8126.6	7367.2	6473.5	5500.2	4698.9	4145.1	3738.2	3578.7	3461.2	3457.0
10°	8621.6	8067.8	6884.7	5567.3	4363.3	3553.6	3171.7	2987.1	2899.0	2865.5	2815.2
12.5°	8705.5	7958.7	6389.7	4635.9	3448.6	2945.2	2777.4	2735.4	2739.6	2756.4	2735.4
15°	8823.0	7862.3	5722.6	3805.3	2894.8	2651.5	2651.5	2659.9	2718.6	2727.0	2722.8
17.5°	8814.6	7673.5	5034.5	3134.0	2559.2	2525.6	2538.2	2617.9	2655.7	2668.3	2638.9
20°	8915.3	7497.3	4325.5	2676.7	2370.4	2420.7	2504.7	2525.6	2571.8	2580.2	2546.6
22.5°	8885.9	7056.7	3666.8	2315.9	2227.8	2324.3	2408.2	2433.3	2420.7	2395.6	2391.4
25°	8831.3	6679.1	3062.7	2076.8	2122.9	2227.8	2307.5	2261.4	2236.1	2240.3	2244.5
27.5°	8734.9	6200.9	2563.4	1908.9	1980.2	2135.5	2131.3	2114.5	2139.7	2118.7	2139.7
30°	8718.1	5722.6	2152.3	1757.9	1875.3	1988.6	1997.0	2026.4	2055.7	2018.0	2055.7
32.5°	8743.3	5198.1	1858.6	1665.6	1812.4	1816.6	1908.9	1938.3	1917.3	1833.4	1841.8
35°	8936.3	4795.4	1644.6	1615.2	1711.8	1715.9	1804.0	1766.3	1674.0	1623.6	1653.0
37.5°	9343.3	4459.7	1543.9	1569.1	1577.5	1632.0	1636.2	1560.7	1569.1	1564.9	1581.7
40°	9863.4	4203.8	1472.6	1527.2	1518.8	1556.5	1405.5	1447.4	1485.2	1497.7	1506.1
42.5°	10220.1	4019.2	1426.4	1460.0	1443.2	1376.1	1292.2	1334.2	1363.5	1409.7	1418.1
45°	10379.5	3872.4	1371.9	1342.6	1342.6	1220.9	1187.3	1195.7	1262.8	1313.1	1304.8
47.5°	10119.4	3729.8	1275.4	1187.3	1216.7	1116.0	1078.2	1078.2	1149.6	1212.5	1199.9
48°	10018.7	3671.0	1279.6	1153.8	1174.7	1099.2	1061.4	1053.0	1132.7	1191.5	1191.5
50°	9519.4	3452.8	1170.5	1061.4	1019.5	1011.1	985.9	994.3	1044.7	1099.2	1099.2
52.5°	8546.1	2982.9	990.1	910.4	834.9	885.2	897.9	881.0	906.2	956.6	952.3
55°	7132.3	2290.7	792.9	755.2	696.4	751.0	776.2	755.2	730.0	767.7	767.7
57.5°	4568.8	1233.5	633.5	641.9	583.1	637.7	658.7	608.3	562.2	591.6	587.4
60°	2059.9	738.4	520.2	507.6	469.9	532.9	566.4	507.6	444.7	465.7	486.7
62.5°	772.0	524.4	394.3	386.0	377.6	436.3	453.1	407.0	344.1	356.6	360.8
65°	566.4	461.5	314.6	285.3	302.1	344.1	335.6	289.5	247.5	247.5	255.9
67.5°	482.5	402.8	255.9	222.4	222.4	226.6	209.7	184.6	172.0	180.4	188.8
70°	377.6	318.8	201.4	172.0	155.2	138.4	121.7	117.5	104.9	117.5	113.3
72.5°	243.3	214.0	155.2	130.0	117.5	96.5	79.7	75.5	62.9	58.7	58.7
75°	130.0	130.0	121.7	104.9	92.3	75.5	62.9	50.4	33.6	25.1	25.1
77.5°	92.3	100.7	109.1	100.7	83.9	62.9	50.4	33.6	16.8	8.4	8.4
80°	88.1	100.7	109.1	96.5	83.9	62.9	46.2	25.1	12.6	4.2	4.2
82.5°	79.7	92.3	100.7	88.1	75.5	54.6	42.0	25.1	12.6	4.2	4.2
85°	16.8	20.9	25.1	25.1	29.4	37.8	29.4	20.9	8.4	4.2	4.2
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	8.4	8.4	4.2	4.2	4.2
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)