

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: P531009

Luminaire Tested: **GALN-SA6B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531009
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-SA6B-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA 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: 23448 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

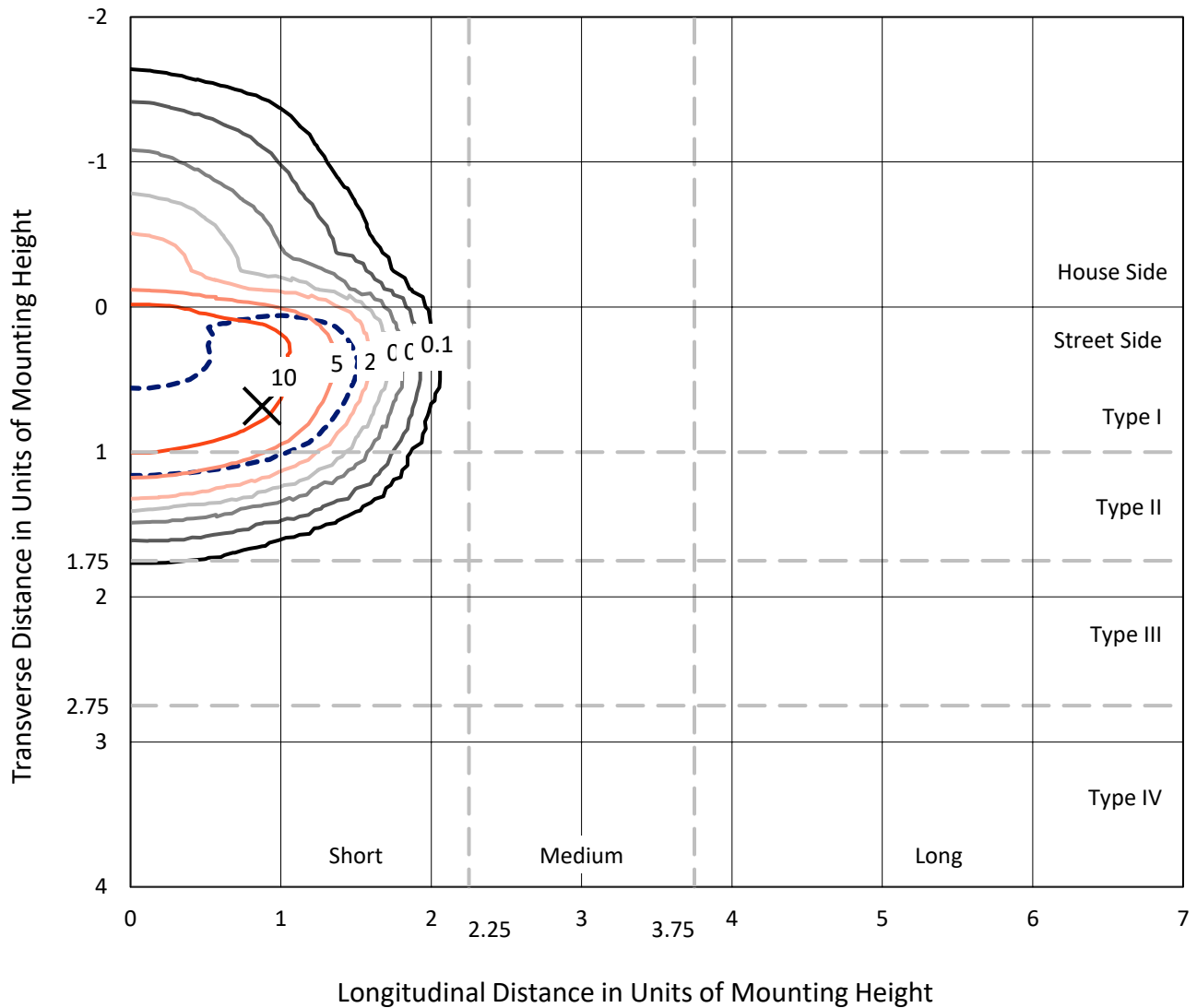
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

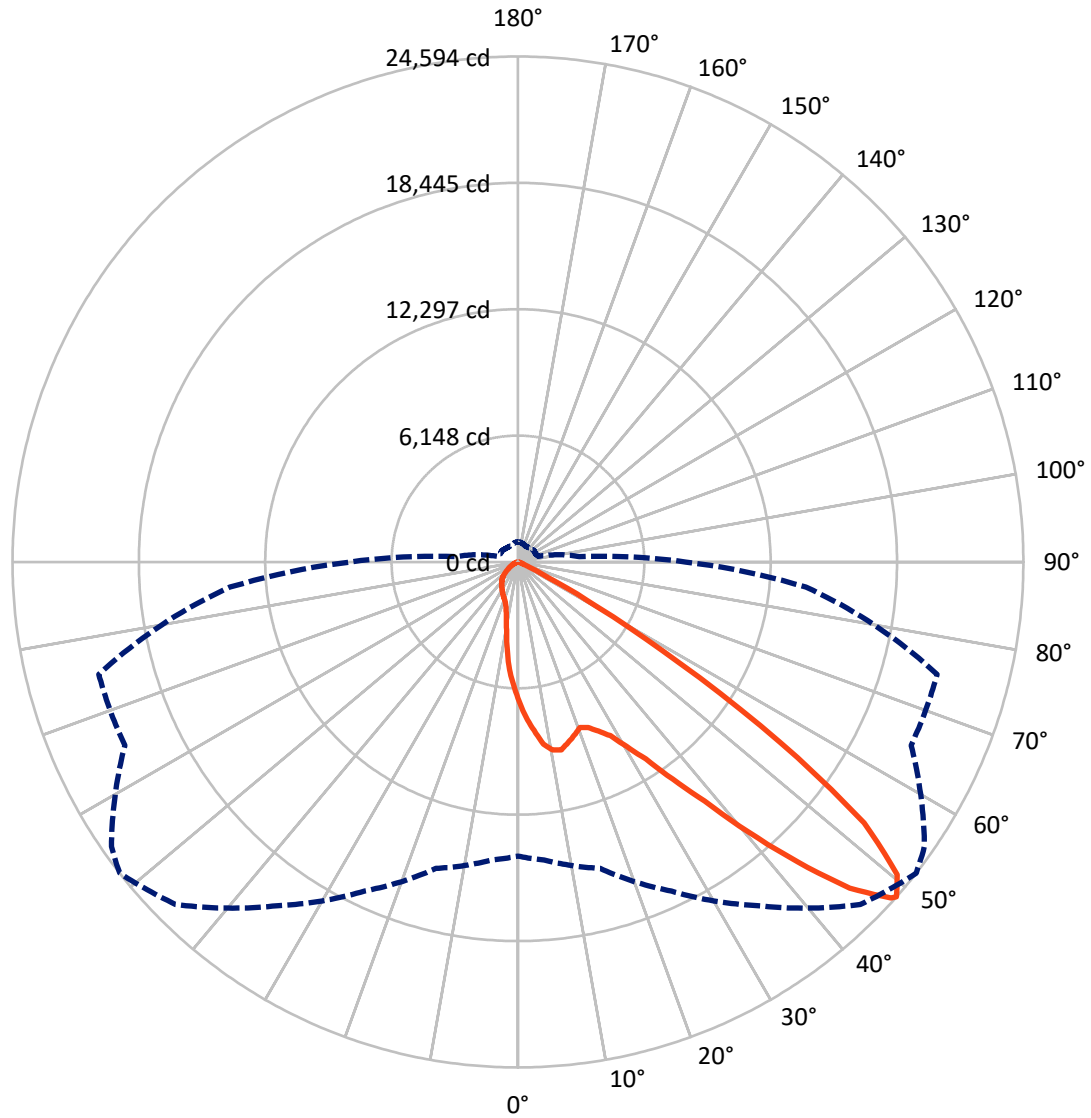
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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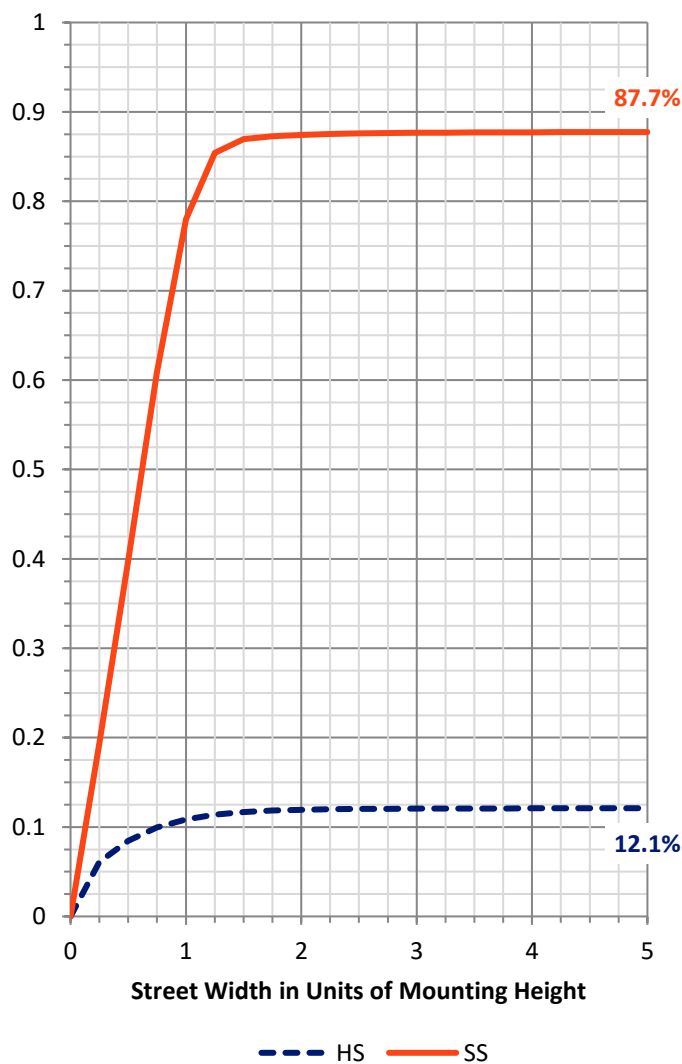
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2855.0	0.0	2855.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20593.0	0.0	20593.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	23448.0	0.0	23448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.8	2.6
10°-20°	1619.7	6.9
20°-30°	2765.5	11.8
30°-40°	5092.6	21.7
40°-50°	7908.9	33.7
50°-60°	4759.8	20.3
60°-70°	550.5	2.3
70°-80°	106.6	0.5
80°-90°	24.6	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°	23448.0	100.0
0°-180°	23448.0	100.0

Coefficient of Utilization



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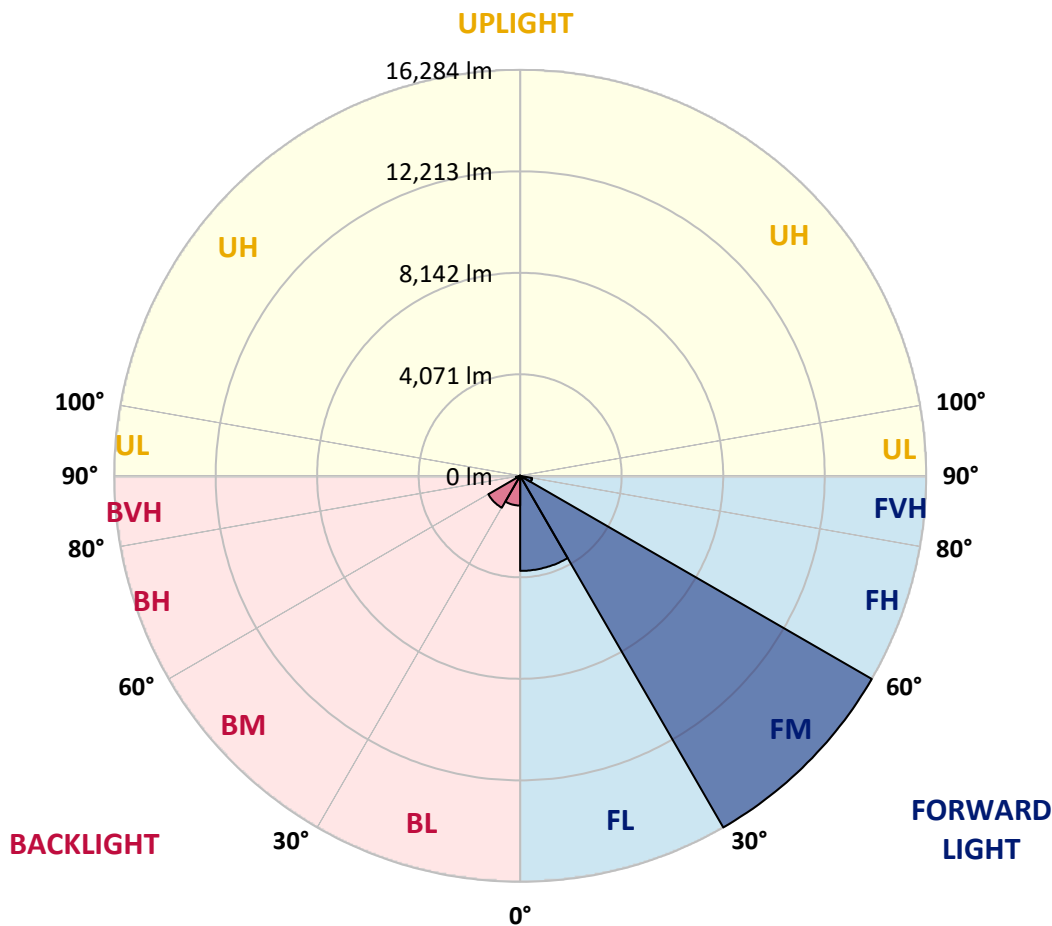
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3812.3	16.3			
FM (30°-60°)	16284.2	69.4			
FH (60°-80°)	484.8	2.1			G0/660
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	1192.6	5.1	B3/2500		
BM (30°-60°)	1477.1	6.3	B2/2500		
BH (60°-80°)	172.3	0.7	B1/500		G1/500
BVH (80°-90°)	12.9	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°	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4
2.5°	8207.0	8019.0	8036.1	7913.1	7841.3	7725.1	7567.8	7537.1	7366.2	7133.7	6897.9
5°	8945.3	8900.9	8959.0	8781.3	8788.1	8596.7	8227.5	8234.4	7841.3	7461.9	7096.1
7.5°	8993.2	8890.7	8948.8	9106.0	9198.3	9164.1	8955.6	8774.4	8401.9	7844.7	7311.5
10°	8053.2	8248.0	8309.6	8569.3	8938.5	9328.2	9304.3	9314.5	9003.5	8275.4	7496.0
12.5°	7489.2	7359.3	7567.8	7725.1	8282.2	9037.6	9382.9	9458.1	9482.0	8692.4	7680.6
15°	7232.8	7232.8	7267.0	7311.5	7714.8	8412.1	9116.3	9335.0	9851.2	9239.3	7971.2
17.5°	7393.5	7386.7	7434.5	7342.2	7492.6	8029.3	8870.1	9119.7	10264.8	9776.0	8200.2
20°	7882.3	7906.2	7875.5	7608.8	7619.1	8022.4	8596.7	8989.8	10545.1	10240.8	8504.4
22.5°	8562.5	8576.2	8401.9	8111.3	8025.9	8224.1	8753.9	9054.7	10770.7	10798.0	8596.7
25°	9348.7	9294.0	9259.8	8849.6	8589.9	8760.8	9109.4	9283.7	10910.8	11276.5	8859.9
27.5°	10439.1	10329.7	10121.2	9755.5	9564.0	9321.3	9570.9	9858.0	11310.7	11946.5	9147.0
30°	12049.0	11953.3	11546.6	11074.9	10572.4	10333.1	10411.7	10569.0	12032.0	12722.4	9526.4
32.5°	14472.5	14270.9	13682.9	12784.0	12100.3	11440.6	11420.1	11587.6	12678.0	13795.7	9977.6
35°	17142.1	17080.6	16215.8	15289.5	13966.6	12948.0	12965.1	13054.0	13915.4	15204.0	10569.0
37.5°	18916.1	19254.5	18704.2	17709.5	16598.6	15142.5	14773.3	14804.1	15614.2	16872.1	11635.4
40°	20286.8	19999.7	20064.7	19832.2	19073.4	18082.1	17265.2	17104.5	17579.6	18717.9	12695.1
42.5°	19688.7	19702.3	20102.3	20652.6	20840.6	20768.8	19934.8	19630.5	19261.4	20228.7	13703.4
45°	18000.1	18352.1	18871.7	20327.9	21606.2	22806.0	22642.0	22136.1	20423.6	21425.1	14284.5
47.5°	15306.6	15292.9	16144.0	18037.7	20878.2	23687.9	24433.1	24077.6	21247.3	21291.8	14164.9
48°	14311.9	14558.0	15436.5	17665.1	20416.7	23558.0	24593.7	24145.9	21107.2	21114.0	14062.3
50°	10579.2	10534.8	11628.6	14363.1	18235.9	22136.1	23916.9	24265.6	21103.8	20215.1	13344.5
52.5°	5588.7	5780.1	6576.6	9030.8	12893.3	18116.3	21096.9	21640.4	20358.6	18745.2	12312.2
55°	2375.6	2146.6	2758.5	4077.9	7253.4	12103.7	15477.5	16687.5	17213.9	16588.4	10770.7
57.5°	847.7	926.3	1066.5	1534.8	3049.0	6624.4	9229.1	10169.1	11926.0	12172.1	7338.8
60°	543.5	553.7	598.2	704.1	1145.1	2553.4	4378.7	5127.3	5923.7	6115.1	3425.0
62.5°	420.4	423.9	444.4	461.5	543.5	991.3	1644.1	1948.4	2023.6	1739.8	899.0
65°	352.1	355.5	362.3	362.3	386.3	464.9	574.3	632.4	615.3	608.4	509.3
67.5°	270.0	276.9	290.5	290.5	304.2	283.7	317.9	338.4	382.8	464.9	434.1
70°	211.9	215.3	225.6	232.4	232.4	205.1	229.0	249.5	280.3	345.2	341.8
72.5°	164.1	170.9	177.7	177.7	167.5	140.1	164.1	181.2	201.7	239.3	232.4
75°	126.5	126.5	129.9	106.0	82.0	71.8	99.1	119.6	150.4	157.2	129.9
77.5°	34.2	37.6	34.2	30.8	34.2	51.3	64.9	75.2	95.7	95.7	85.5
80°	0.0	3.4	10.3	20.5	34.2	47.9	58.1	64.9	75.2	82.0	78.6
82.5°	0.0	3.4	10.3	20.5	30.8	37.6	51.3	54.7	61.5	71.8	71.8
85°	0.0	3.4	6.8	13.7	20.5	23.9	23.9	20.5	20.5	17.1	13.7
87.5°	0.0	0.0	3.4	6.8	6.8	10.3	10.3	10.3	10.3	10.3	10.3
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°	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4	6771.4
2.5°	6805.6	6699.6	6539.0	6286.0	6043.3	5886.1	5735.7	5568.2	5475.9	5469.1	5417.8
5°	6887.6	6648.3	6265.5	5831.4	5366.5	4966.6	4563.3	4300.1	4064.2	3934.3	3910.4
7.5°	6932.0	6621.0	6002.3	5274.2	4481.2	3828.3	3377.2	3045.6	2915.7	2820.0	2816.6
10°	7024.3	6573.1	5609.2	4535.9	3554.9	2895.2	2584.1	2433.7	2362.0	2334.6	2293.6
12.5°	7092.7	6484.3	5205.9	3777.1	2809.7	2399.6	2262.8	2228.6	2232.1	2245.7	2228.6
15°	7188.4	6405.6	4662.4	3100.3	2358.5	2160.3	2160.3	2167.1	2215.0	2221.8	2218.4
17.5°	7181.6	6251.8	4101.8	2553.4	2085.1	2057.7	2068.0	2132.9	2163.7	2174.0	2150.0
20°	7263.6	6108.3	3524.1	2180.8	1931.3	1972.3	2040.6	2057.7	2095.3	2102.2	2074.8
22.5°	7239.7	5749.4	2987.5	1886.8	1815.0	1893.7	1962.0	1982.5	1972.3	1951.8	1948.4
25°	7195.2	5441.7	2495.3	1692.0	1729.6	1815.0	1880.0	1842.4	1821.9	1825.3	1828.7
27.5°	7116.6	5052.1	2088.5	1555.3	1613.4	1739.8	1736.4	1722.8	1743.3	1726.2	1743.3
30°	7103.0	4662.4	1753.5	1432.2	1527.9	1620.2	1627.0	1651.0	1674.9	1644.1	1674.9
32.5°	7123.5	4235.1	1514.2	1357.0	1476.6	1480.1	1555.3	1579.2	1562.1	1493.7	1500.6
35°	7280.7	3907.0	1339.9	1316.0	1394.6	1398.0	1469.8	1439.0	1363.8	1322.8	1346.8
37.5°	7612.3	3633.5	1257.9	1278.4	1285.2	1329.7	1333.1	1271.6	1278.4	1275.0	1288.6
40°	8036.1	3425.0	1199.8	1244.2	1237.4	1268.1	1145.1	1179.3	1210.0	1220.3	1227.1
42.5°	8326.7	3274.6	1162.2	1189.5	1175.9	1121.2	1052.8	1087.0	1110.9	1148.5	1155.3
45°	8456.6	3155.0	1117.7	1093.8	1093.8	994.7	967.3	974.2	1028.9	1069.9	1063.1
47.5°	8244.6	3038.8	1039.1	967.3	991.3	909.2	878.5	878.5	936.6	987.9	977.6
48°	8162.6	2990.9	1042.5	940.0	957.1	895.6	864.8	858.0	922.9	970.8	970.8
50°	7755.8	2813.2	953.7	864.8	830.6	823.8	803.3	810.1	851.1	895.6	895.6
52.5°	6962.8	2430.3	806.7	741.7	680.2	721.2	731.5	717.8	738.3	779.3	775.9
55°	5810.9	1866.3	646.0	615.3	567.4	611.9	632.4	615.3	594.8	625.5	625.5
57.5°	3722.4	1004.9	516.1	523.0	475.1	519.6	536.7	495.6	458.0	482.0	478.5
60°	1678.3	601.6	423.9	413.6	382.8	434.1	461.5	413.6	362.3	379.4	396.5
62.5°	628.9	427.3	321.3	314.5	307.6	355.5	369.2	331.6	280.3	290.5	294.0
65°	461.5	376.0	256.4	232.4	246.1	280.3	273.5	235.9	201.7	201.7	208.5
67.5°	393.1	328.1	208.5	181.2	181.2	184.6	170.9	150.4	140.1	147.0	153.8
70°	307.6	259.8	164.1	140.1	126.5	112.8	99.1	95.7	85.5	95.7	92.3
72.5°	198.3	174.3	126.5	106.0	95.7	78.6	64.9	61.5	51.3	47.9	47.9
75°	106.0	106.0	99.1	85.5	75.2	61.5	51.3	41.0	27.3	20.5	20.5
77.5°	75.2	82.0	88.9	82.0	68.4	51.3	41.0	27.3	13.7	6.8	6.8
80°	71.8	82.0	88.9	78.6	68.4	51.3	37.6	20.5	10.3	3.4	3.4
82.5°	64.9	75.2	82.0	71.8	61.5	44.4	34.2	20.5	10.3	3.4	3.4
85°	13.7	17.1	20.5	20.5	23.9	30.8	23.9	17.1	6.8	3.4	3.4
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	6.8	6.8	3.4	3.4	3.4
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)