

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: P383375

Luminaire Tested: **GLEON-SA6D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43239.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

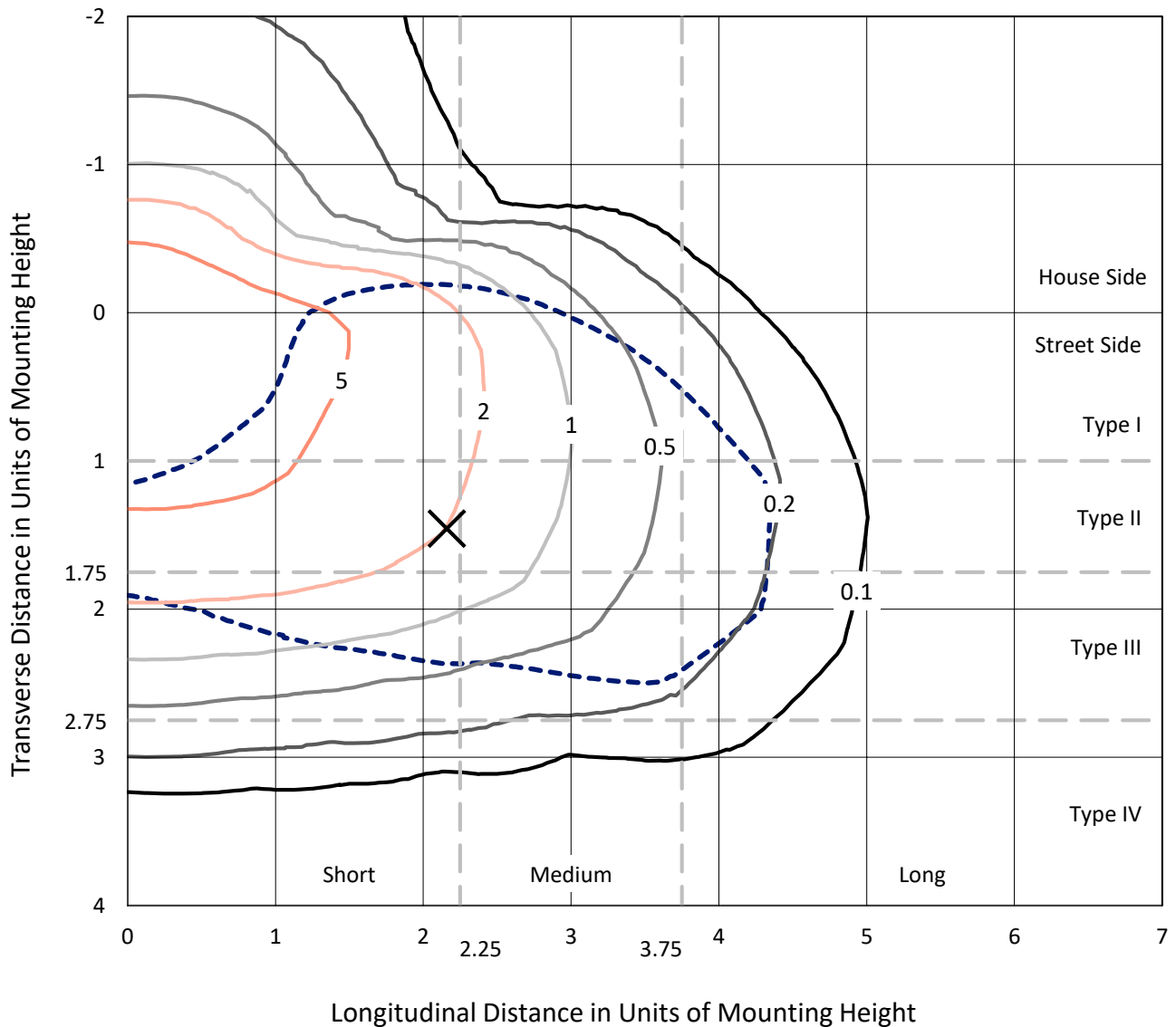
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

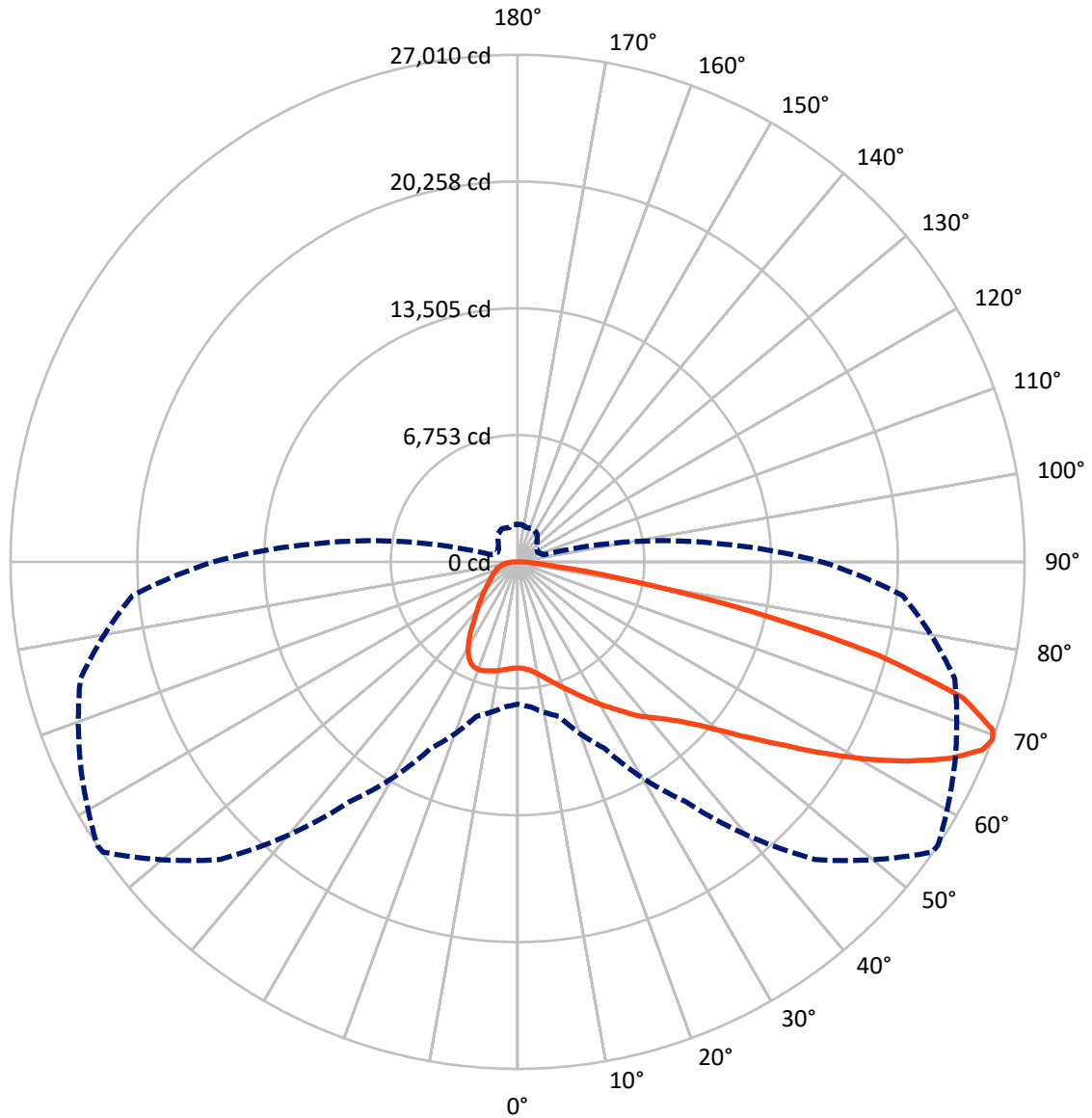
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9629.4	0.0	9629.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33610.3	0.0	33610.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	43239.6	0.0	43239.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	1.3
10°-20°	1785.3	4.1
20°-30°	3116.5	7.2
30°-40°	4476.7	10.4
40°-50°	6195.6	14.3
50°-60°	9077.3	21.0
60°-70°	11067.0	25.6
70°-80°	6118.6	14.2
80°-90°	847.4	2.0
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°	43239.6	100.0
0°-180°	43239.6	100.0

Coefficient of Utilization

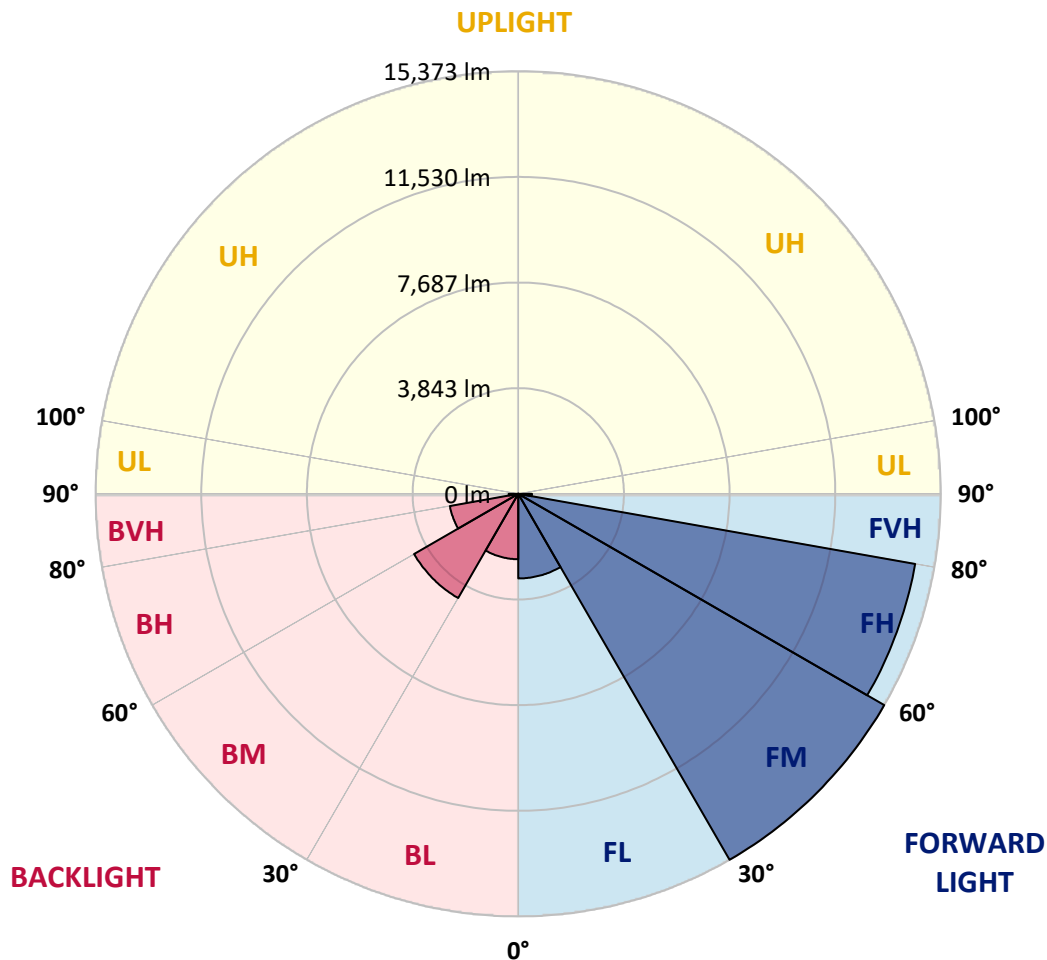


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3077.4	7.1			
FM (30°-60°)	15373.3	35.6			
FH (60°-80°)	14660.4	33.9			G5
FVH (80°-90°)	499.2	1.2			G3/500
BL (0°-30°)	2379.6	5.5	B3/2500		
BM (30°-60°)	4376.3	10.1	B3/5000		
BH (60°-80°)	2525.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	348.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9
2.5°	5688.7	5694.6	5690.2	5702.1	5688.7	5697.6	5690.2	5690.2	5685.7	5672.3	5657.4
5°	5778.0	5789.9	5782.5	5794.4	5778.0	5781.0	5767.6	5767.6	5754.3	5725.9	5696.1
7.5°	5918.1	5931.4	5925.5	5937.4	5915.1	5915.1	5897.3	5895.8	5868.9	5822.7	5788.5
10°	6084.9	6102.8	6096.8	6114.7	6096.8	6102.8	6084.9	6084.9	6049.2	5983.6	5940.4
12.5°	6327.7	6350.1	6333.7	6332.2	6324.7	6336.7	6321.8	6318.8	6286.0	6196.7	6137.0
15°	6652.5	6676.3	6642.0	6639.0	6597.3	6592.8	6592.8	6588.4	6567.5	6460.3	6362.0
17.5°	7026.3	7033.7	7003.9	6956.3	6902.7	6868.4	6863.9	6875.8	6875.8	6750.7	6594.3
20°	7392.8	7406.2	7382.3	7328.7	7260.2	7209.5	7173.8	7197.6	7196.1	7047.2	6825.3
22.5°	7791.9	7823.2	7787.5	7719.0	7638.5	7582.0	7519.4	7540.2	7541.7	7358.5	7051.6
25°	8308.8	8280.5	8258.2	8161.4	8046.7	7988.6	7930.5	7951.3	7945.4	7693.7	7285.5
27.5°	8766.1	8772.1	8742.3	8639.5	8507.0	8378.9	8375.9	8389.2	8367.0	8042.2	7505.9
30°	9298.0	9300.9	9259.2	9166.8	9022.3	8857.0	8818.3	8840.7	8793.0	8372.9	7738.4
32.5°	9826.7	9841.6	9795.4	9683.7	9567.6	9366.4	9289.0	9303.8	9184.7	8711.0	7978.1
35°	10290.0	10310.8	10295.9	10221.5	10094.8	9922.0	9829.7	9820.7	9673.3	9125.2	8295.4
37.5°	10762.2	10781.5	10765.2	10702.6	10652.0	10468.7	10419.5	10419.5	10163.4	9548.2	8699.1
40°	11247.8	11277.6	11258.2	11171.8	11128.6	11045.2	10927.5	10899.2	10622.2	10056.1	9357.5
42.5°	11699.1	11737.9	11815.3	11764.6	11676.8	11688.7	11451.9	11437.0	11234.4	10806.9	10184.2
45°	12339.7	12396.2	12527.4	12488.6	12470.7	12405.1	12123.6	12110.2	12032.8	11816.8	11210.5
47.5°	13038.2	13115.7	13352.5	13360.0	13552.2	13428.5	13045.7	12999.5	13017.4	13026.3	12463.3
50°	13681.7	13766.6	14155.4	14338.7	14791.5	14818.3	14206.1	14164.4	14234.3	14439.9	13923.0
52.5°	14195.7	14302.9	14788.5	15354.5	16130.6	16351.1	15634.5	15603.3	15655.4	16009.9	15573.5
55°	14572.5	14688.6	15217.5	16248.2	17487.6	17876.4	17279.1	17249.3	17282.1	17733.4	17368.4
57.5°	14660.4	14688.6	15455.8	16850.0	18633.1	19567.1	19291.5	19231.9	19071.0	19464.2	19349.5
60°	14247.7	14361.0	15259.2	17061.6	19519.4	21233.9	21394.8	21320.2	20868.9	21190.7	21098.3
62.5°	13410.7	13613.2	14524.9	16739.8	19866.5	22595.3	23457.8	23368.4	22590.9	22799.4	22355.6
65°	12043.2	12129.6	13087.4	15630.1	19425.6	23466.7	25297.4	25252.8	24274.1	23947.9	22587.9
67.5°	9597.4	9759.7	10573.0	13310.8	17621.6	23364.0	26720.0	26715.5	25373.4	24373.9	21764.1
69°	7582.0	7750.3	8524.9	10964.8	15592.9	22424.0	26958.3	27010.4	25683.2	24114.7	20587.4
70°	6044.7	6239.8	6771.6	9235.4	13791.9	21184.7	26760.2	26854.0	25623.6	23687.2	19501.5
72.5°	2572.5	2730.4	3108.8	4760.7	8405.6	15819.3	24467.7	24822.3	24242.8	21679.3	16117.2
75°	1123.2	1172.3	1343.6	1940.9	3731.4	8609.7	19167.8	19823.2	20728.9	18324.8	12006.0
77.5°	822.3	843.1	937.0	1139.6	1674.3	3251.8	12326.2	12707.5	14949.4	13334.6	7364.4
80°	636.1	651.0	723.9	837.2	1093.4	1315.3	5621.6	5949.3	8405.6	6849.0	3067.0
82.5°	506.5	516.9	567.5	616.7	755.2	796.9	1866.4	2070.6	3102.8	1891.8	811.8
85°	470.7	482.6	500.5	449.8	484.1	467.7	807.4	844.6	937.0	743.3	339.6
87.5°	213.0	251.7	496.0	350.1	257.7	205.6	330.7	345.6	388.7	390.2	150.4
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°	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9	5652.9
2.5°	5666.3	5661.9	5669.3	5651.4	5673.8	5672.3	5664.8	5667.8	5682.7	5681.2	5682.7
5°	5700.6	5697.6	5706.6	5693.2	5720.0	5728.9	5730.4	5743.8	5760.2	5764.7	5764.7
7.5°	5787.0	5787.0	5791.4	5773.5	5791.4	5789.9	5782.5	5795.9	5812.3	5813.8	5812.3
10°	5935.9	5937.4	5930.0	5883.8	5868.9	5828.7	5791.4	5792.9	5813.8	5830.2	5834.7
12.5°	6123.6	6117.7	6084.9	6000.0	5937.4	5855.5	5816.8	5815.3	5836.1	5849.6	5854.0
15°	6338.2	6321.8	6236.8	6098.3	5988.1	5907.7	5845.1	5830.2	5818.3	5803.4	5804.8
17.5°	6540.7	6503.5	6362.0	6169.8	6053.7	5946.3	5825.7	5728.9	5661.9	5623.1	5611.3
20°	6746.3	6673.3	6469.2	6236.8	6089.3	5894.3	5661.9	5465.2	5343.1	5286.5	5276.1
22.5°	6934.0	6816.3	6569.0	6306.9	6061.1	5718.5	5353.5	5067.5	4897.7	4821.8	4827.7
25°	7117.2	6953.4	6673.3	6356.0	5918.1	5408.7	4924.5	4573.0	4376.4	4291.5	4288.5
27.5°	7278.1	7091.9	6786.5	6315.8	5651.4	4967.8	4416.6	4074.0	3910.2	3837.1	3825.2
30°	7462.7	7266.2	6937.0	6162.4	5261.2	4458.3	3920.6	3679.2	3563.1	3490.0	3476.6
32.5°	7687.7	7503.0	7060.6	5883.8	4762.2	3926.5	3533.3	3364.9	3259.2	3177.2	3162.3
35°	8015.4	7815.8	7091.9	5484.6	4214.0	3506.4	3248.8	3076.0	2933.0	2827.2	2816.8
37.5°	8426.5	8207.6	7020.3	4967.8	3682.2	3233.9	3011.9	2798.9	2612.7	2463.8	2439.9
40°	9019.3	8688.6	6822.3	4371.9	3290.5	3023.8	2781.0	2538.2	2307.4	2133.1	2098.8
42.5°	9731.4	9253.2	6518.4	3779.0	3002.9	2810.9	2551.6	2250.7	2030.3	1906.7	1888.8
45°	10637.1	9840.1	6096.8	3260.7	2719.9	2597.8	2304.4	2027.3	1890.3	1799.4	1784.5
47.5°	11670.8	10498.5	5654.4	2839.2	2480.2	2398.2	2106.2	1927.5	1818.8	1747.3	1733.9
50°	12941.4	11241.8	5185.2	2493.6	2238.8	2158.4	2012.4	1872.4	1786.0	1730.9	1717.5
52.5°	14374.4	12080.4	4847.0	2221.0	2039.3	1981.1	1963.2	1842.6	1772.5	1730.9	1717.5
55°	15917.5	12934.0	4482.1	1991.6	1866.4	1882.8	1930.4	1845.6	1797.9	1747.3	1727.9
57.5°	17462.2	13815.8	4075.4	1797.9	1729.4	1809.8	1908.2	1851.5	1811.3	1762.2	1744.3
60°	18683.8	14374.4	3445.4	1635.5	1620.6	1729.4	1854.5	1806.8	1754.8	1756.2	1753.3
62.5°	19254.3	14344.6	2749.7	1491.0	1511.9	1620.6	1768.2	1736.9	1693.6	1751.8	1756.2
65°	18934.0	13629.6	2140.5	1360.0	1395.7	1507.4	1678.7	1702.6	1717.5	1829.2	1844.1
67.5°	17590.4	12238.3	1657.9	1245.3	1290.0	1430.0	1687.7	1854.5	1873.9	1991.6	1990.1
69°	16200.6	10933.5	1440.5	1185.7	1237.8	1449.4	1803.8	1951.3	1878.4	2003.5	1985.6
70°	15035.7	9901.2	1324.2	1145.5	1214.0	1483.6	1881.4	1949.8	1856.0	1963.2	1933.4
72.5°	11580.0	7123.2	1123.2	1071.0	1133.6	1419.6	1903.7	1906.7	1803.8	1824.7	1774.0
75°	7942.4	4501.5	980.2	969.7	1011.4	1279.6	1832.2	1821.7	1668.3	1638.5	1596.9
77.5°	4379.4	2286.5	832.7	872.9	901.2	1133.6	1665.3	1650.4	1523.8	1461.2	1446.4
80°	1689.2	1000.9	703.0	776.1	794.0	981.7	1459.8	1446.4	1340.6	1260.2	1237.8
82.5°	637.6	524.4	580.9	671.8	665.9	810.4	1236.3	1228.9	1126.1	1008.4	972.7
85°	294.9	314.3	460.3	554.1	511.0	600.3	989.1	1002.4	877.3	737.3	737.3
87.5°	125.1	175.8	326.2	418.5	344.1	405.1	725.4	692.6	636.1	440.9	414.1
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)