

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: P383491

Luminaire Tested: **GLEON-SA7D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51432.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

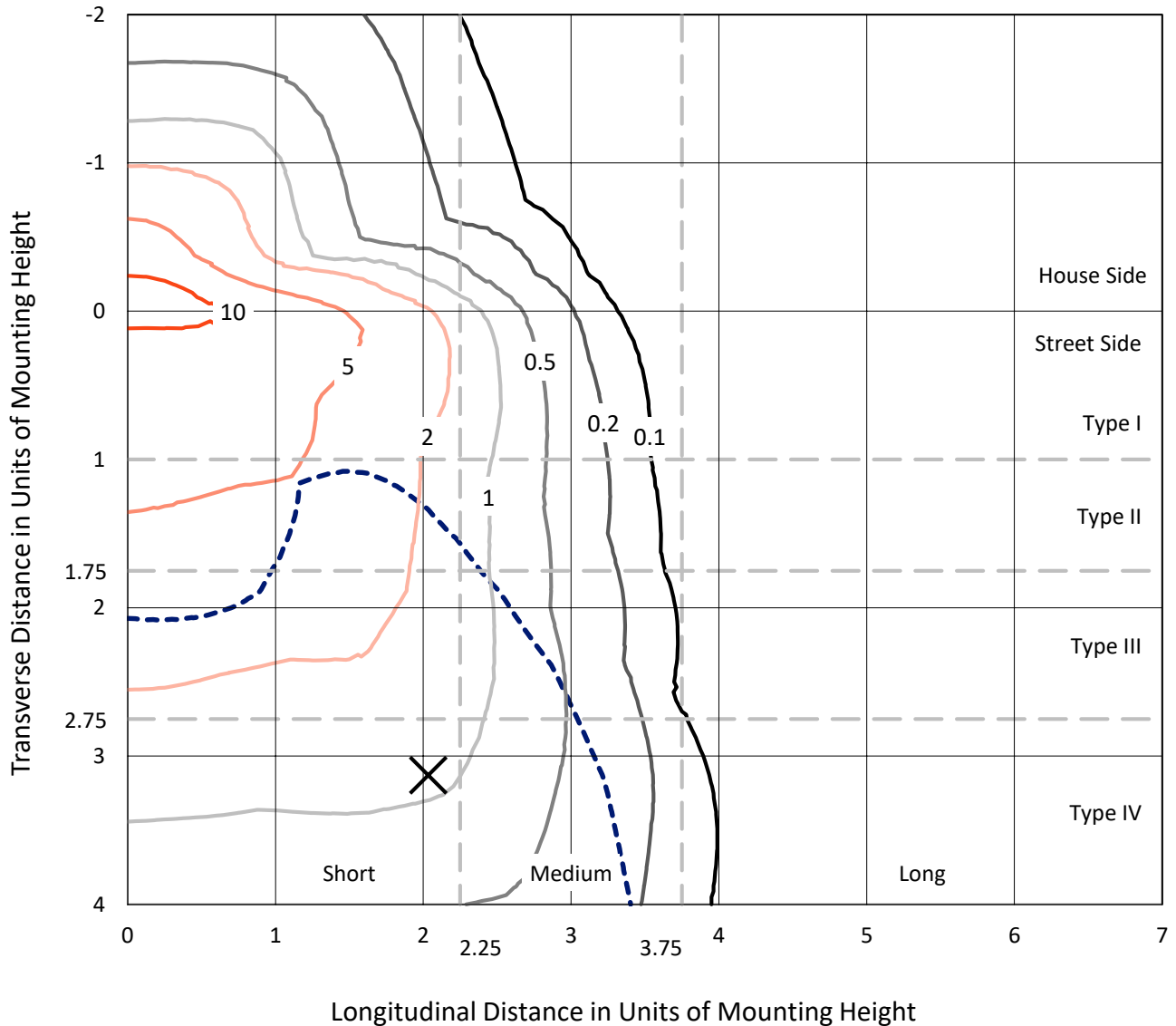
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

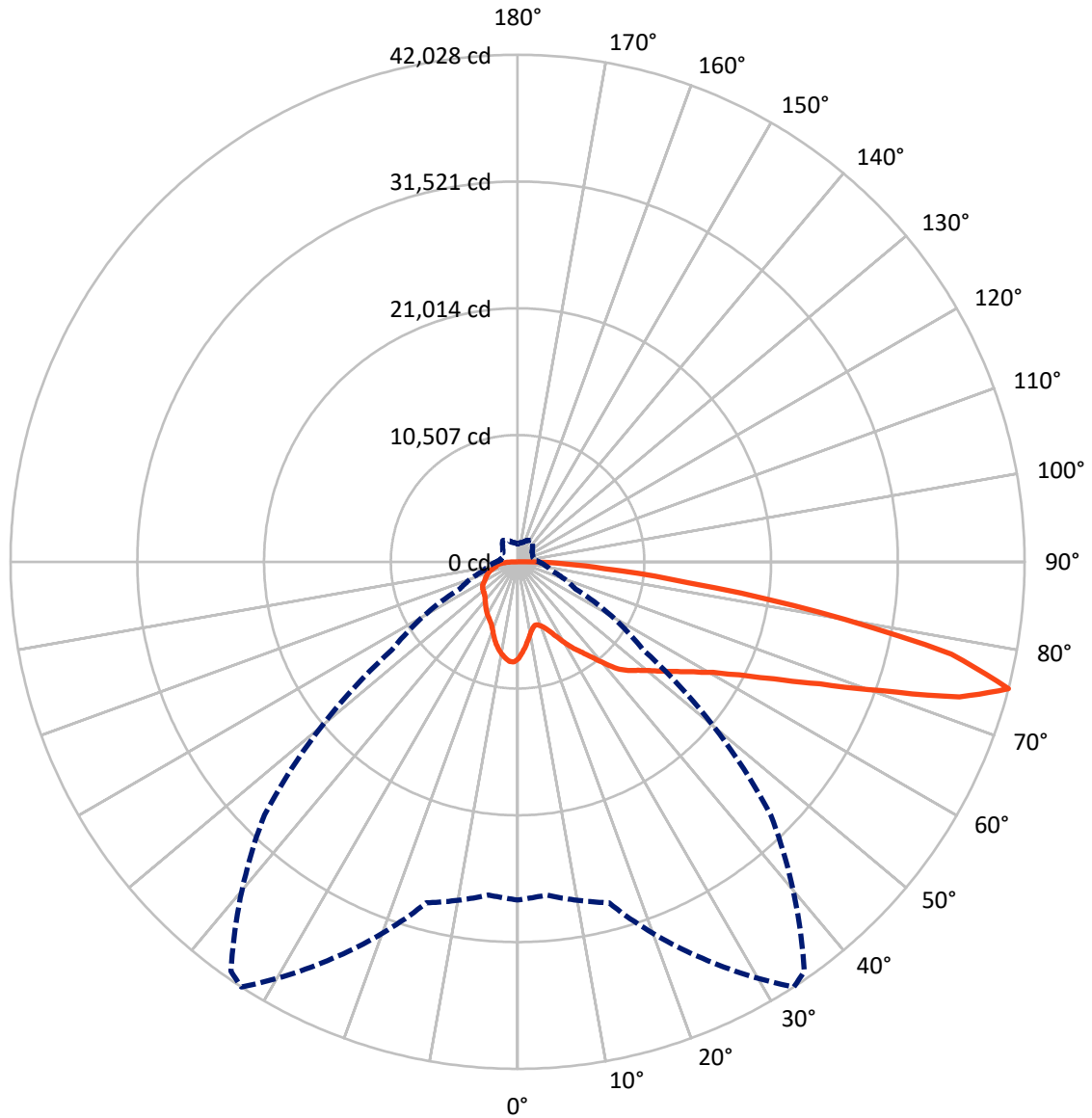
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11043.9	0.0	11043.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	40388.7	0.0	40388.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	51432.6	0.0	51432.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.0	1.4
10°-20°	1969.1	3.8
20°-30°	3215.9	6.3
30°-40°	4789.2	9.3
40°-50°	6869.1	13.4
50°-60°	9430.1	18.3
60°-70°	11806.1	23.0
70°-80°	10680.4	20.8
80°-90°	1945.5	3.8
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°	51432.6	100.0
0°-180°	51432.6	100.0

Coefficient of Utilization

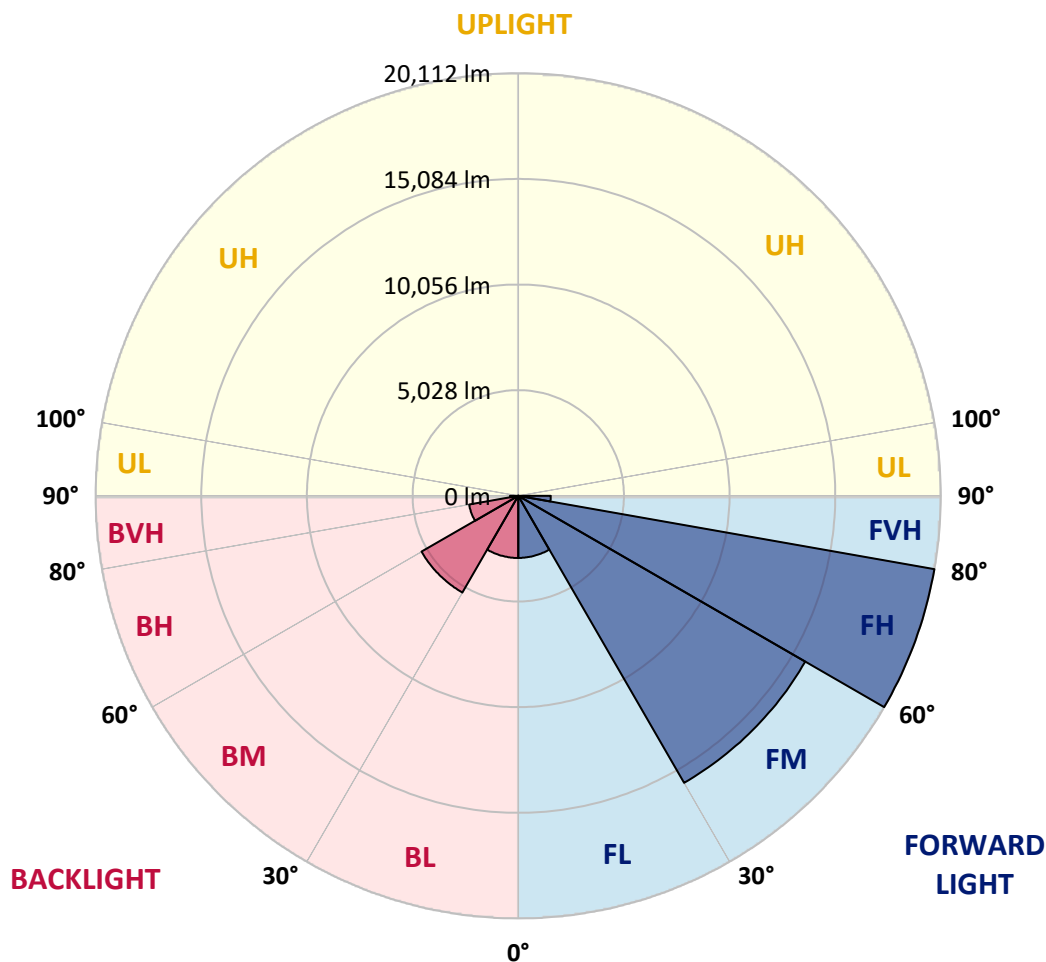


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2954.0	5.7			
FM (30°-60°)	15773.3	30.7			
FH (60°-80°)	20111.9	39.1			G5
FVH (80°-90°)	1549.4	3.0			G5
BL (0°-30°)	2958.1	5.8	B4/5000		
BM (30°-60°)	5315.1	10.3	B4/8500		
BH (60°-80°)	2374.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	396.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2
2.5°	7465.3	7436.9	7490.2	7497.4	7543.5	7561.3	7625.3	7724.8	7806.5	7900.6	7985.9
5°	6788.5	6768.9	6843.5	6896.8	6998.1	7040.7	7191.7	7403.2	7591.5	7804.7	7998.4
7.5°	6145.3	6134.7	6218.2	6339.0	6456.3	6514.9	6776.0	7083.4	7397.9	7742.5	8039.2
10°	5603.4	5599.9	5679.8	5798.9	5971.2	6037.0	6374.5	6779.6	7220.1	7694.6	8108.5
12.5°	5299.7	5312.1	5349.4	5448.9	5608.8	5674.5	6049.4	6525.5	7070.9	7678.6	8209.7
15°	5374.3	5393.8	5329.8	5326.3	5440.1	5491.6	5843.3	6344.3	6964.3	7705.2	8357.2
17.5°	5692.3	5695.9	5527.1	5420.5	5489.8	5516.4	5779.3	6241.3	6902.2	7765.6	8542.0
20°	6140.0	6131.1	5832.6	5655.0	5692.3	5699.4	5870.0	6243.0	6896.8	7870.5	8781.8
22.5°	6733.4	6667.6	6266.1	6024.5	6015.7	6004.9	6102.7	6374.5	6975.1	8041.0	9067.9
25°	7508.0	7445.9	6893.3	6562.8	6491.8	6465.1	6479.3	6655.3	7129.6	8224.0	9387.7
27.5°	8369.7	8261.2	7728.3	7261.0	7113.6	7076.3	6991.0	7051.4	7298.4	8399.9	9767.8
30°	9091.0	9032.4	8566.9	8012.5	7838.4	7785.1	7561.3	7495.6	7541.7	8639.7	10247.6
32.5°	9494.2	9455.2	9172.7	8725.0	8563.3	8488.7	8172.5	8041.0	7932.6	9018.1	10897.8
35°	9982.8	9958.0	9787.4	9462.3	9222.4	9144.3	8899.1	8762.3	8483.3	9538.7	11738.2
37.5°	10604.6	10578.0	10581.5	10318.6	10032.6	9959.7	9798.0	9654.2	9197.5	10222.7	12651.3
40°	11308.1	11256.6	11237.2	11224.7	11043.5	11002.6	10917.4	10721.9	10092.9	11040.0	13552.1
42.5°	12367.0	12184.1	11793.2	11940.7	12120.1	12098.8	12168.1	11887.4	11087.8	12006.4	14431.4
45°	13388.6	13088.3	12413.2	12445.2	12837.8	12956.9	13475.7	13276.7	12166.3	13065.2	15341.1
47.5°	13854.1	13626.7	13052.8	13054.6	13443.7	13690.7	14827.6	14685.6	13299.8	14268.0	16451.5
50°	14374.6	14147.2	13632.0	13825.7	14165.0	14427.9	16133.5	16060.6	14378.2	15584.5	17782.2
52.5°	14943.1	14557.7	14230.7	14577.1	15053.3	15358.9	17441.1	17242.1	15367.7	16909.8	19311.8
55°	14950.2	14845.4	15094.1	15348.2	16060.6	16435.5	18810.8	18285.0	16174.4	18212.1	20557.3
57.5°	15801.3	15630.7	16158.3	16275.6	17206.5	17629.4	20173.5	19192.9	16995.2	19210.6	21228.9
60°	16927.6	16781.9	17213.7	17522.8	18624.3	19189.2	21628.6	20125.5	17640.1	19963.9	21196.8
62.5°	18873.1	18707.8	18702.5	19135.9	20619.4	21276.8	23261.3	21040.5	17895.9	20113.1	20292.6
65°	21721.0	21458.0	20962.3	21168.4	23375.0	24030.6	25085.8	21703.2	17558.4	19313.6	17963.4
67.5°	24492.4	24483.6	23874.3	24297.1	27013.5	27539.3	27164.5	21769.0	16504.8	16529.7	13831.0
70°	27255.1	27290.6	27187.6	28658.7	31929.4	32476.6	29378.2	20885.9	14136.6	11937.1	8286.1
72.5°	29443.9	29435.0	29953.8	33746.9	38309.2	38186.7	31243.6	18210.4	10149.9	6443.8	3960.1
75°	28026.2	27717.1	29262.7	36266.2	42027.7	41429.0	29657.1	12702.9	5267.7	2933.2	2131.9
77.5°	18279.7	18572.8	20841.5	29959.1	36761.8	36033.4	21758.3	5926.8	2481.9	1924.1	1545.6
80°	6619.7	6928.9	9759.0	16970.3	25327.5	25208.4	10714.8	2435.7	1678.9	1453.3	1126.3
82.5°	2277.6	2391.4	3849.9	7536.4	14300.0	14833.0	4031.2	1384.0	1220.5	1030.5	771.0
85°	893.6	1023.3	1760.6	3626.0	7213.1	7266.4	1632.7	827.9	849.2	675.1	422.8
87.5°	339.4	412.2	842.1	1684.2	3293.9	3025.6	584.5	394.4	483.3	401.5	200.7
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°	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2	8039.2
2.5°	8051.6	8088.9	8167.2	8220.4	8277.3	8293.3	8300.4	8314.6	8328.8	8323.5	8325.2
5°	8101.4	8174.2	8300.4	8353.7	8378.5	8350.1	8295.1	8250.6	8218.7	8200.9	8195.6
7.5°	8183.1	8286.1	8421.2	8412.3	8355.4	8229.3	8087.1	7980.6	7891.8	7859.7	7842.0
10°	8291.5	8412.3	8506.4	8405.2	8240.0	8021.5	7808.2	7643.0	7509.8	7458.2	7449.4
12.5°	8430.0	8552.6	8570.4	8355.4	8081.8	7783.4	7493.7	7275.3	7076.3	7012.3	6998.1
15°	8609.5	8725.0	8614.9	8268.4	7886.4	7484.9	7110.0	6813.3	6603.7	6525.5	6497.1
17.5°	8797.8	8908.0	8623.7	8124.5	7630.6	7131.4	6660.6	6356.8	6116.9	6026.3	6015.7
20°	9023.4	9073.2	8586.4	7918.4	7278.8	6673.0	6177.3	5891.3	5763.4	5699.4	5692.3
22.5°	9302.3	9249.1	8501.1	7639.4	6832.9	6143.6	5740.3	5607.0	5575.0	5560.8	5566.2
25°	9597.3	9433.9	8375.0	7275.3	6269.7	5614.2	5420.5	5457.8	5500.4	5495.1	5495.1
27.5°	9922.4	9622.1	8181.3	6792.0	5646.1	5180.6	5203.7	5340.6	5404.5	5402.7	5400.9
30°	10339.9	9835.4	7934.4	6211.1	5063.3	4875.1	5015.4	5182.4	5269.5	5265.9	5267.7
32.5°	10853.4	10069.8	7598.6	5562.6	4642.3	4649.4	4811.1	4976.3	5077.6	5068.7	5070.5
35°	11453.8	10332.8	7143.8	4923.0	4363.4	4469.9	4597.9	4713.4	4809.3	4796.9	4784.4
37.5°	12107.7	10590.4	6539.7	4351.0	4136.0	4303.0	4409.6	4429.1	4473.6	4441.5	4418.4
40°	12729.5	10787.6	5761.6	3881.9	3906.8	4160.9	4230.2	4152.0	4072.0	4061.4	4029.4
42.5°	13271.4	10853.4	4974.6	3507.1	3665.2	4011.6	4054.3	3890.8	3746.9	3679.3	3650.9
45°	13843.4	10876.5	4240.8	3192.6	3432.5	3878.4	3924.5	3706.1	3503.5	3357.9	3309.9
47.5°	14591.4	11043.5	3670.5	2959.8	3254.7	3789.5	3855.3	3558.6	3295.6	3087.8	3043.4
50°	15570.3	11373.9	3206.8	2782.2	3139.3	3730.9	3805.6	3414.7	3125.1	2874.6	2830.1
52.5°	16657.6	11677.7	2831.9	2638.2	3027.3	3627.8	3741.6	3311.7	2965.2	2677.4	2629.4
55°	17418.0	11445.0	2529.9	2489.0	2881.6	3480.4	3652.7	3224.6	2736.0	2485.5	2442.9
57.5°	17563.7	10649.1	2300.7	2334.5	2705.8	3295.6	3515.9	3030.9	2611.6	2402.0	2357.6
60°	17165.7	9540.4	2130.2	2192.3	2517.5	3062.9	3260.1	2894.1	2492.6	2313.1	2275.9
62.5°	16165.4	8405.2	2004.0	2064.4	2341.6	2826.6	3100.2	2750.2	2371.8	2211.9	2174.6
65°	14145.5	7056.8	1883.2	1950.8	2178.1	2622.3	2956.3	2617.0	2252.8	2130.2	2094.7
67.5°	10677.5	5285.4	1769.5	1829.9	2032.5	2444.7	2800.0	2485.5	2137.2	2059.1	2016.4
70°	6287.5	3309.9	1639.8	1703.8	1879.7	2259.8	2632.9	2341.6	1993.3	1957.8	1902.8
72.5°	2926.1	1991.6	1492.3	1554.6	1687.8	2012.9	2418.0	2153.3	1822.9	1744.6	1670.0
75°	1746.4	1456.8	1318.2	1373.3	1467.5	1750.0	2148.0	1961.4	1661.1	1558.1	1479.9
77.5°	1305.8	1113.9	1126.3	1185.0	1261.4	1531.5	1902.8	1810.4	1536.8	1456.8	1403.6
80°	939.8	845.7	918.5	982.5	1062.4	1392.8	1822.9	1673.6	1389.3	1282.7	1233.0
82.5°	627.1	607.6	691.1	756.9	835.0	1218.7	1712.7	1465.7	1186.8	1051.7	941.6
85°	346.4	366.0	465.5	493.9	561.4	858.1	1403.6	1177.9	893.6	719.5	687.6
87.5°	143.9	168.8	250.5	241.6	298.5	511.7	923.8	710.7	568.5	424.6	330.4
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)