

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: P192337

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T4FT-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA 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: 53534 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 501
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: 25 FT

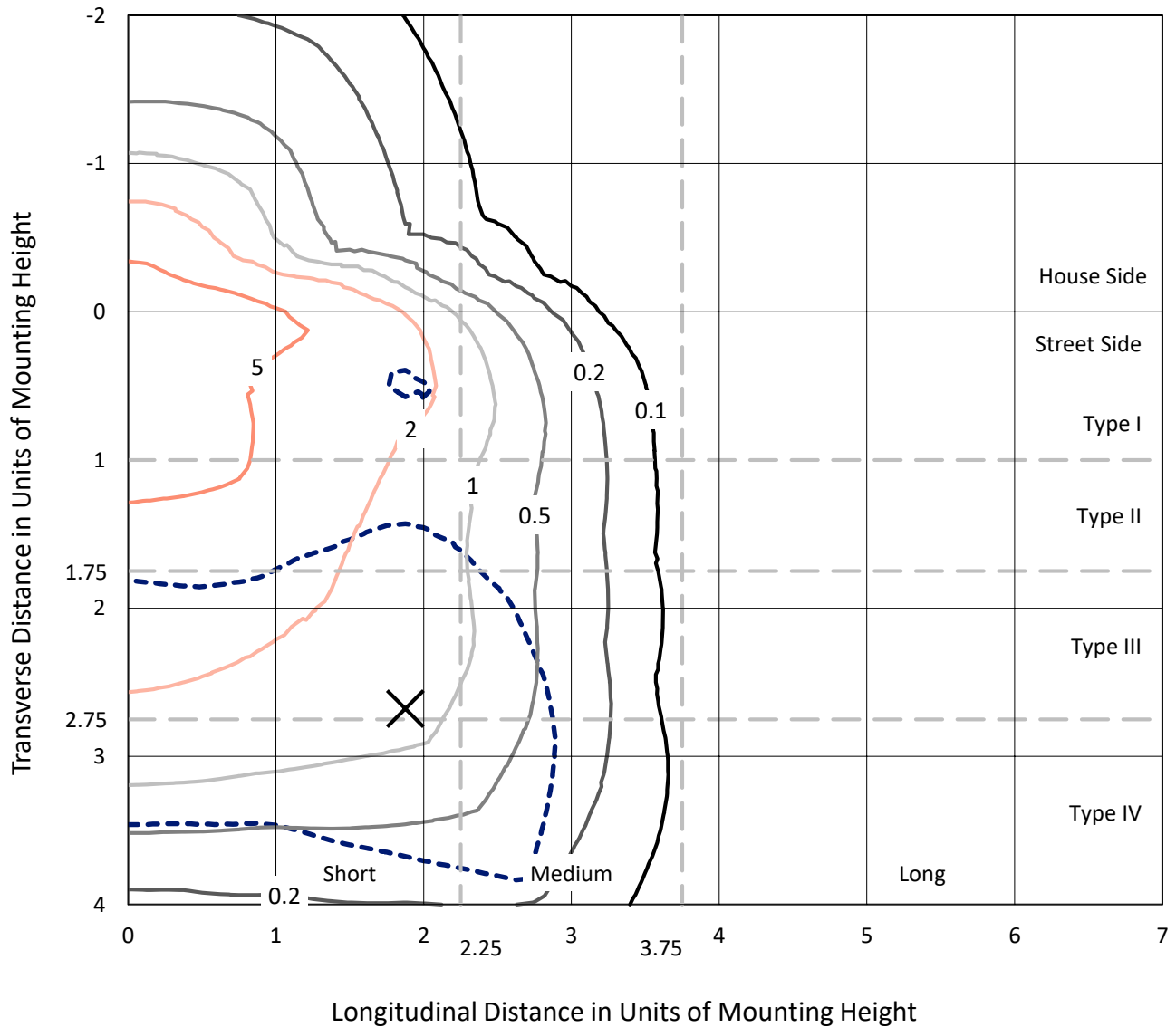


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Iso-Footcandle Lines of Horizontal Illumination

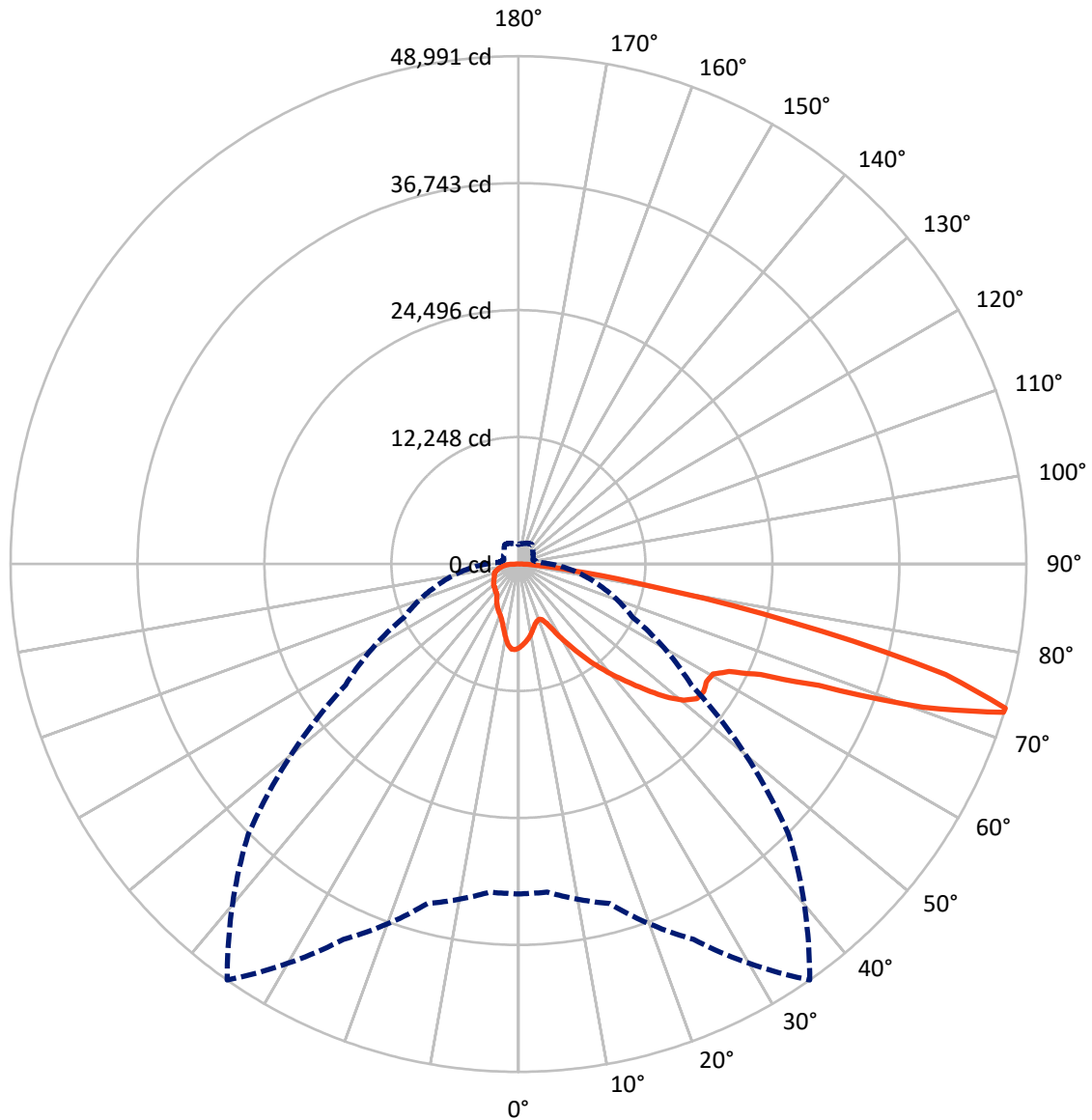
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10210.4	0.0	10210.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	43323.6	0.0	43323.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	53534.0	0.0	53534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.5	1.4
10°-20°	1825.6	3.4
20°-30°	2951.4	5.5
30°-40°	4949.1	9.2
40°-50°	7628.8	14.3
50°-60°	10234.8	19.1
60°-70°	13634.9	25.5
70°-80°	10399.3	19.4
80°-90°	1178.7	2.2
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°	53534.0	100.0
0°-180°	53534.0	100.0

Coefficient of Utilization



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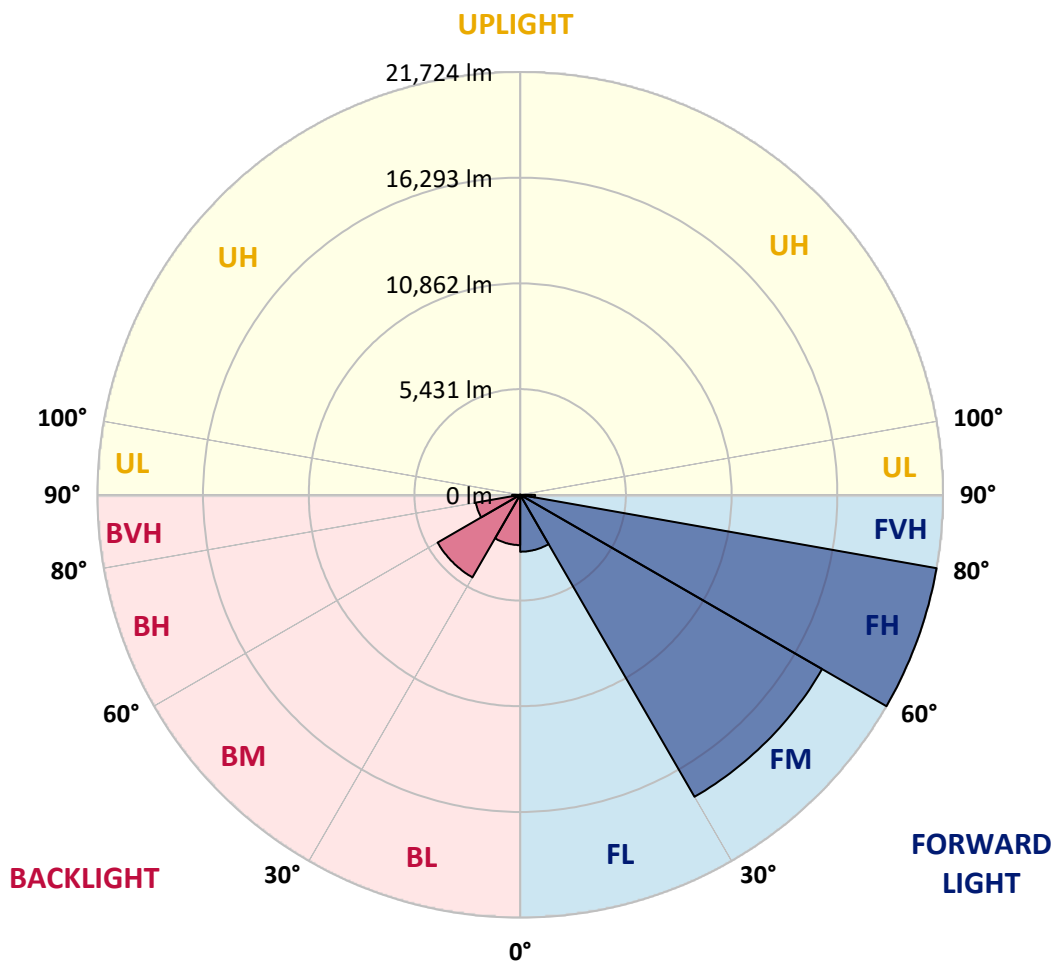
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2924.8	5.5			
FM	(30°-60°)	17912.8	33.5			
FH	(60°-80°)	21724.1	40.6			G5
FVH	(80°-90°)	761.9	1.4			G5
BL	(0°-30°)	2583.7	4.8	B4/5000		
BM	(30°-60°)	4899.9	9.2	B3/5000		
BH	(60°-80°)	2310.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	416.8	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°	35°	45°	55°	65°	75°	85°	90°
0°	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9
2.5°	7761.2	7776.6	7758.6	7781.7	7820.3	7861.4	7889.7	7930.8	7977.1	8041.4	8056.8
5°	7396.1	7419.3	7419.3	7460.4	7534.9	7601.8	7663.5	7730.3	7828.0	7938.6	7982.3
7.5°	6995.1	7007.9	7031.1	7092.8	7200.7	7295.9	7383.3	7491.2	7624.9	7771.5	7848.6
10°	6511.8	6529.8	6565.8	6653.2	6799.7	6930.8	7056.8	7205.9	7375.6	7558.1	7655.8
12.5°	6169.9	6164.7	6180.1	6244.4	6372.9	6532.3	6714.9	6905.1	7113.3	7326.7	7445.0
15°	6054.2	6025.9	5966.8	5951.3	6020.8	6180.1	6390.9	6624.9	6874.3	7131.3	7277.9
17.5°	6126.2	6077.3	5915.4	5797.1	5786.8	5907.6	6131.3	6393.5	6681.4	6995.1	7177.6
20°	6578.6	6462.9	6064.5	5789.4	5694.3	5753.4	5948.8	6226.4	6565.8	6982.2	7216.2
22.5°	7660.9	7491.2	6645.5	6133.9	5812.5	5740.5	5887.1	6182.7	6578.6	7141.6	7439.8
25°	9236.8	8995.1	7642.9	6992.5	6329.2	5946.2	5979.6	6283.0	6761.1	7511.8	7871.7
27.5°	10481.0	10324.2	8946.3	8203.3	7270.1	6501.5	6280.4	6534.9	7133.9	8118.5	8486.1
30°	11221.4	11126.3	10339.7	9576.1	8470.7	7385.8	6856.3	7007.9	7717.5	8959.1	9262.5
32.5°	12080.1	12023.5	11637.9	10936.1	9766.4	8547.8	7768.9	7714.9	8499.0	9969.5	10108.3
35°	12969.6	12951.6	12725.3	12221.5	11157.2	10080.0	8979.7	8614.7	9349.9	11018.3	10930.9
37.5°	13797.3	13766.5	13635.4	13342.3	12612.2	11725.3	10213.7	9537.6	10267.7	12020.9	11632.8
40°	15321.8	15080.2	14630.3	14409.2	14082.7	13110.9	11193.2	10398.8	11218.9	12977.3	12239.5
42.5°	17180.5	16787.2	15949.1	15645.7	15599.5	14203.5	11861.6	11234.3	12177.8	13925.9	12835.9
45°	18643.3	18273.1	17550.7	17167.6	17337.3	15193.3	12532.5	12126.3	13164.9	14920.8	13450.3
47.5°	20203.7	19622.7	18666.4	18782.1	19152.3	16129.0	13216.4	13085.2	14247.2	16033.9	14213.8
50°	20260.3	19815.5	19396.5	20088.0	20663.9	16990.2	14072.4	14090.4	15571.2	17435.0	15229.3
52.5°	19085.4	18990.3	19656.1	20743.6	21573.9	17671.5	15046.7	15129.0	17265.3	19044.3	16345.0
55°	18674.1	18566.1	19334.8	20514.8	21697.3	18234.5	16103.3	16252.4	19314.2	20741.0	17432.4
57.5°	19676.7	19437.6	19489.0	20406.8	21396.6	18851.5	17255.0	17555.8	21540.5	22224.3	18131.7
60°	22478.9	21967.3	20995.5	20972.4	21558.5	19777.0	18586.7	18954.3	23854.2	22933.9	17859.2
62.5°	26409.6	25898.0	24077.9	22892.7	22805.3	21304.0	20221.7	20319.4	25191.0	21972.4	16195.9
65°	30664.2	30206.6	28173.1	26499.5	25692.3	23833.6	22121.5	20928.7	24754.0	19327.1	13285.8
67.5°	35828.9	35337.9	33589.7	32044.7	31268.3	27916.0	23455.7	20345.1	21980.1	14972.2	9550.4
70°	39440.8	38939.5	38250.6	39502.5	41402.3	33805.7	23628.0	17972.3	16417.0	9951.5	5748.3
72.5°	34728.6	34494.6	35751.8	41024.4	48937.3	37379.1	21358.0	13085.2	9535.0	5282.9	3326.6
73°	31818.5	31767.1	33911.1	39957.5	48991.2	36828.9	20363.1	12162.3	8177.6	4673.7	3041.2
75°	14368.1	14782.0	19481.3	30520.2	42564.3	30348.0	14332.1	6977.1	4619.7	3228.9	2295.7
77.5°	3452.5	3596.5	6095.3	14494.0	26880.0	18085.4	6493.8	3450.0	2953.8	2280.3	1676.1
80°	1470.5	1519.3	2347.1	5354.9	12655.9	7283.0	2992.4	2311.1	2043.8	1591.3	1174.8
82.5°	817.5	868.9	1331.7	2429.4	5108.1	2483.4	1825.2	1609.3	1344.5	958.9	763.5
85°	462.7	491.0	778.9	1357.4	2164.6	997.5	1092.6	1069.4	758.4	493.6	375.3
87.5°	218.5	236.5	375.3	629.8	848.4	390.8	555.3	611.8	475.6	300.8	195.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9	8079.9
2.5°	8074.8	8121.1	8175.1	8203.3	8229.0	8259.9	8290.7	8290.7	8295.9	8298.5
5°	8018.2	8113.4	8198.2	8234.2	8241.9	8241.9	8234.2	8193.1	8157.1	8172.5
7.5°	7900.0	8038.8	8110.8	8097.9	8000.2	7887.1	7792.0	7676.3	7617.2	7606.9
10°	7730.3	7889.7	7902.6	7774.0	7532.4	7290.7	7090.2	6894.8	6802.3	6779.1
12.5°	7542.7	7689.2	7606.9	7342.1	6953.9	6601.7	6347.2	6149.3	6061.9	6038.7
15°	7391.0	7491.2	7283.0	6866.5	6378.1	6005.3	5794.5	5648.0	5586.3	5568.3
17.5°	7311.3	7331.8	6951.4	6388.4	5869.1	5558.0	5426.9	5357.5	5334.4	5321.5
20°	7349.8	7205.9	6635.2	5943.6	5452.6	5234.1	5203.2	5185.3	5180.1	5172.4
22.5°	7542.7	7167.3	6344.7	5522.0	5087.6	4992.4	5018.2	5015.6	5010.4	5005.3
25°	7887.1	7200.7	6061.9	5121.0	4781.6	4761.1	4807.3	4807.3	4786.8	4786.8
27.5°	8342.2	7270.1	5745.7	4740.5	4504.0	4506.6	4542.6	4532.3	4509.1	4493.7
30°	8897.4	7313.9	5375.5	4398.6	4244.3	4234.1	4244.3	4200.6	4131.2	4126.1
32.5°	9465.6	7259.9	4946.2	4095.2	3969.3	3946.1	3938.4	3876.7	3797.0	3773.9
35°	9979.7	7061.9	4509.1	3853.6	3707.1	3655.6	3691.6	3671.1	3599.1	3581.1
37.5°	10355.1	6694.3	4115.8	3640.2	3519.4	3506.5	3529.7	3537.4	3452.5	3434.6
40°	10607.0	6195.6	3779.0	3460.3	3483.4	3434.6	3357.4	3303.4	3277.7	3270.0
42.5°	10810.1	5676.3	3496.3	3375.4	3491.1	3349.7	3182.6	3095.2	3141.5	3162.1
45°	11044.0	5169.8	3259.7	3270.0	3452.5	3252.0	3061.8	2977.0	2995.0	3000.1
47.5°	11365.4	4552.8	3005.2	3100.4	3324.0	3185.2	2987.2	2866.4	2781.6	2743.0
50°	11810.1	3822.7	2740.4	2910.1	3198.0	3136.3	2871.6	2743.0	2586.2	2550.2
52.5°	12118.6	3141.5	2521.9	2750.7	3084.9	3038.7	2779.0	2611.9	2447.4	2416.5
55°	11951.5	2609.3	2331.7	2573.3	2935.8	2917.8	2701.9	2478.2	2349.7	2324.0
57.5°	11116.0	2272.6	2185.2	2406.2	2753.3	2815.0	2599.1	2365.1	2272.6	2254.6
60°	9522.1	2061.8	2092.6	2293.1	2604.2	2712.2	2496.2	2303.4	2241.7	2228.9
62.5°	7388.4	1920.4	2023.2	2210.9	2488.5	2640.2	2439.7	2295.7	2272.6	2257.1
65°	5293.2	1807.3	1948.6	2128.6	2383.1	2573.3	2419.1	2285.4	2290.6	2277.7
67.5°	3596.5	1707.0	1858.7	2036.1	2280.3	2514.2	2390.8	2249.4	2313.7	2298.3
70°	2516.8	1609.3	1753.3	1917.8	2151.7	2432.0	2339.4	2195.4	2190.3	2128.6
72.5°	1964.1	1480.8	1609.3	1753.3	1987.2	2316.3	2236.6	2074.6	1989.8	1925.5
73°	1874.1	1449.9	1573.3	1717.3	1951.2	2288.0	2208.3	2041.2	1946.1	1886.9
75°	1550.2	1316.2	1429.4	1557.9	1797.0	2154.3	2069.5	1889.5	1768.7	1732.7
77.5°	1218.5	1126.0	1234.0	1349.7	1583.6	1958.9	1863.8	1691.6	1624.7	1593.9
80°	902.3	933.2	1028.3	1131.1	1372.8	1750.7	1665.9	1493.6	1791.8	1717.3
82.5°	635.0	707.0	794.4	886.9	1151.7	1547.6	1444.8	1267.4	1311.1	1090.0
85°	375.3	462.7	545.0	624.7	830.4	1282.8	1192.8	1010.3	827.8	789.2
87.5°	218.5	257.1	280.2	362.5	570.7	966.6	840.6	748.1	429.3	290.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)