

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: P194128

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52371 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

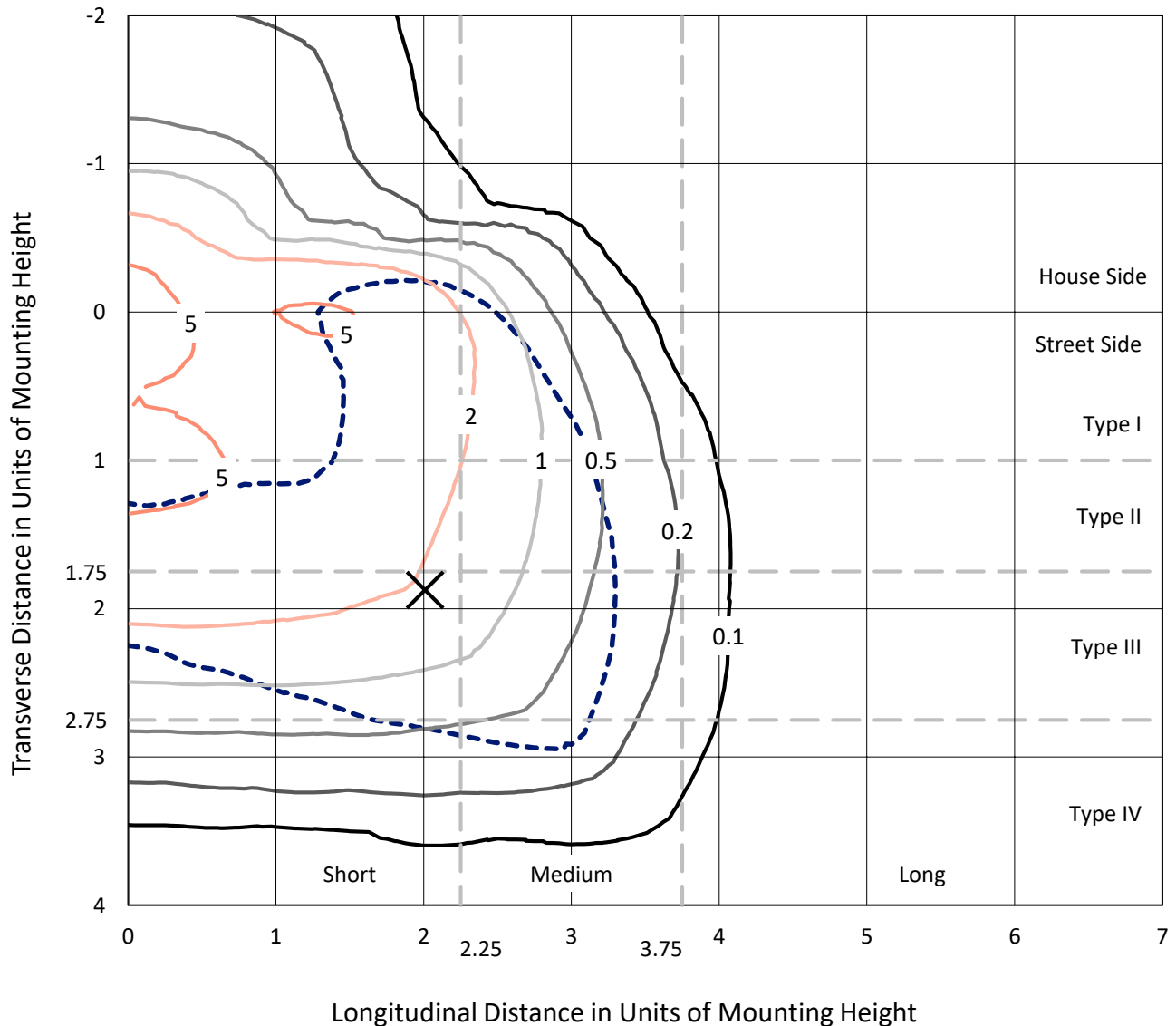
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

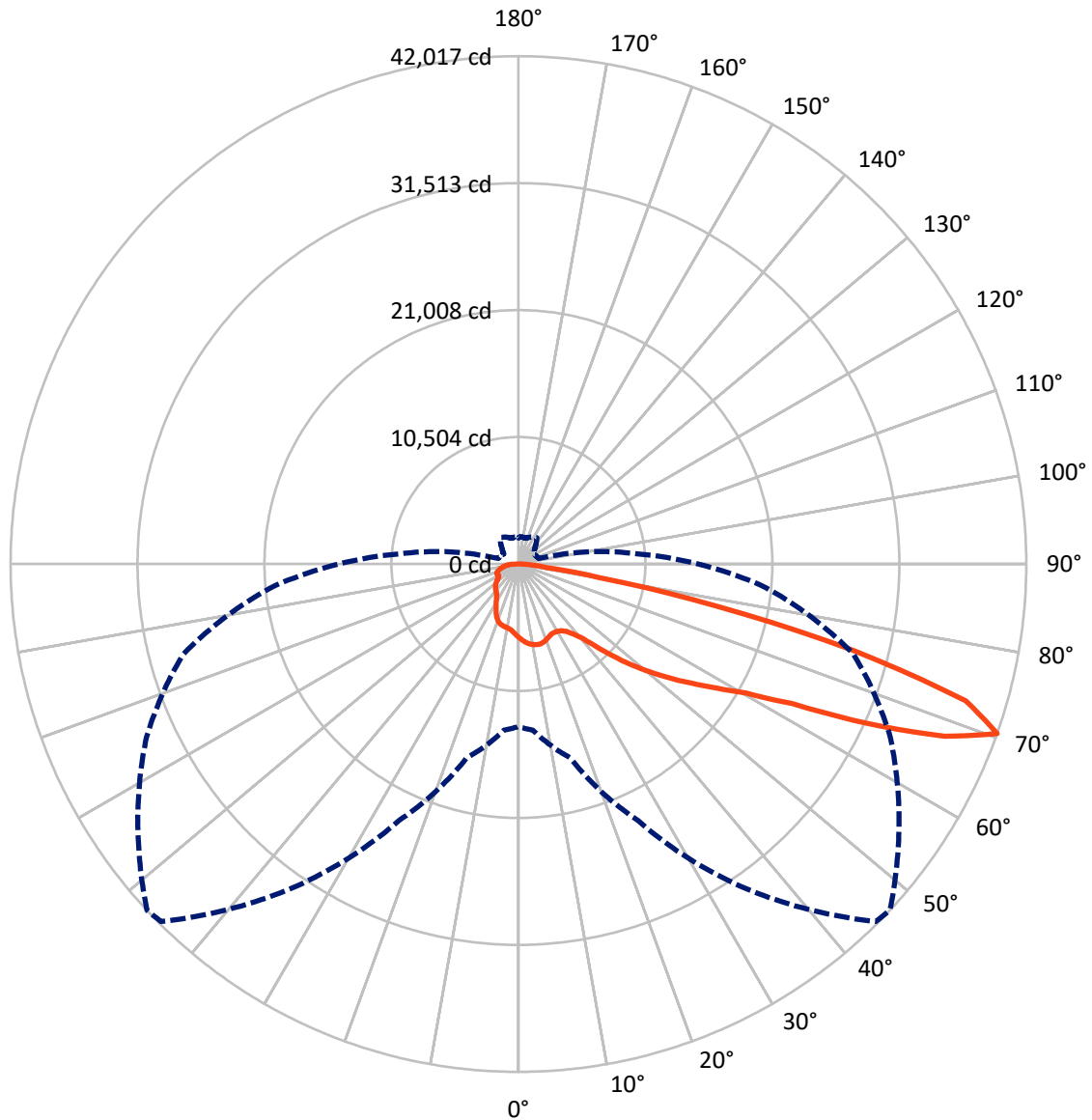


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10925.6	0.0	10925.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	41445.4	0.0	41445.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	52371.0	0.0	52371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.2	1.1
10°-20°	1708.2	3.3
20°-30°	2522.5	4.8
30°-40°	3666.4	7.0
40°-50°	6598.2	12.6
50°-60°	11430.7	21.8
60°-70°	16315.0	31.2
70°-80°	8375.2	16.0
80°-90°	1172.6	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°	52371.0	100.0
0°-180°	52371.0	100.0



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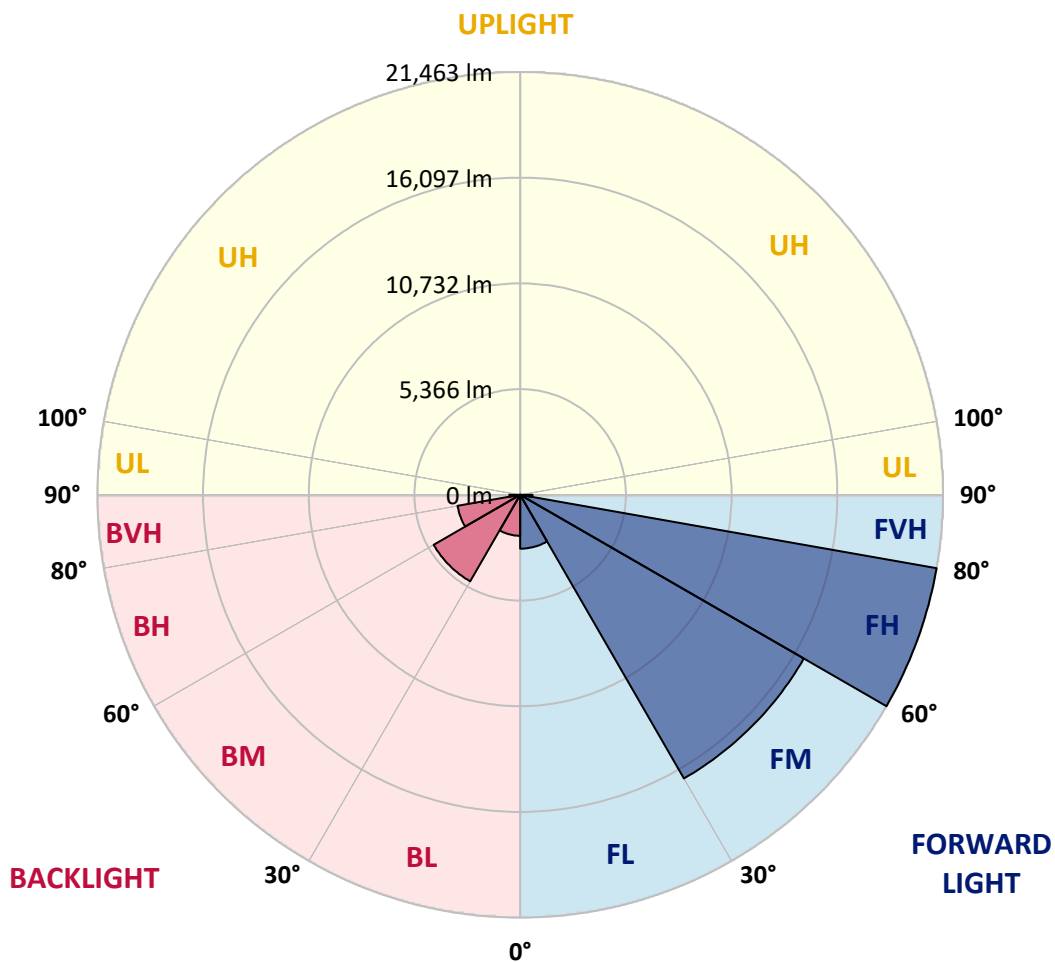
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2732.6	5.2			
FM	(30°-60°)	16624.0	31.7			
FH	(60°-80°)	21463.1	41.0			G5
FVH	(80°-90°)	625.7	1.2			G4/750
BL	(0°-30°)	2080.3	4.0	B3/2500		
BM	(30°-60°)	5071.3	9.7	B4/8500		
BH	(60°-80°)	3227.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	546.9	1.0			G4/750
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°	47°	55°	65°	75°	85°
0°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	6433.4	6420.6	6415.5	6405.3	6392.6	6328.9	6316.2	6270.3	6206.6	6140.4	6071.6
5°	6856.3	6853.8	6825.7	6774.8	6693.3	6553.1	6520.0	6407.9	6257.6	6112.3	5967.1
7.5°	7228.3	7205.4	7151.9	7050.0	6907.3	6716.2	6670.3	6514.9	6308.5	6109.8	5913.6
10°	7500.9	7488.2	7371.0	7230.9	7044.9	6833.4	6779.9	6606.6	6379.9	6127.6	5883.0
12.5°	7656.3	7630.9	7495.8	7327.7	7106.0	6899.6	6846.1	6670.3	6415.5	6127.6	5839.7
15°	7646.2	7628.3	7493.3	7309.8	7085.6	6904.7	6856.3	6680.5	6407.9	6102.1	5783.7
17.5°	7442.3	7450.0	7335.3	7154.4	6971.0	6833.4	6790.1	6627.0	6356.9	6051.2	5717.4
20°	7085.6	7121.3	7044.9	6884.3	6782.4	6688.2	6660.1	6522.5	6277.9	5977.3	5646.1
22.5°	6728.9	6762.0	6731.5	6596.4	6581.1	6525.1	6509.8	6410.4	6209.2	5931.4	5602.8
25°	6466.5	6497.1	6492.0	6374.8	6420.6	6418.1	6405.3	6356.9	6193.9	5931.4	5610.4
27.5°	6395.1	6405.3	6395.1	6288.1	6351.8	6402.8	6392.6	6385.0	6239.7	6005.3	5707.2
30°	6639.7	6624.5	6545.5	6328.9	6387.5	6458.8	6448.7	6453.8	6377.3	6199.0	5923.8
32.5°	7615.6	7546.8	7297.1	6688.2	6532.7	6571.0	6576.0	6660.1	6672.9	6497.1	6260.1
35°	9075.5	8999.1	8675.5	7651.2	6983.7	6851.2	6851.2	6978.6	7055.0	6925.1	6782.4
37.5°	10622.1	10538.0	10364.7	8986.3	7931.5	7337.9	7325.1	7414.3	7523.9	7554.4	7590.1
40°	12380.1	12290.9	12339.3	10484.5	9253.9	8181.2	8000.3	7936.6	8232.2	8428.3	8713.7
42.5°	14303.7	14263.0	14280.8	12153.3	10759.6	9442.4	9185.1	8856.4	9213.1	9562.2	10160.9
45°	16084.7	16120.4	16102.5	13939.4	12436.1	10981.3	10708.7	10071.7	10420.8	11019.5	11995.4
47.5°	17644.0	17496.2	17725.5	15891.1	14313.9	12703.7	12367.4	11513.8	11868.0	12606.9	14257.9
50°	19537.1	19516.7	19180.4	18495.0	16584.1	14433.7	13992.9	13004.3	13554.7	14581.5	17108.9
52.5°	21526.9	21157.5	20849.2	20520.5	18991.8	16207.0	15666.8	14489.7	15536.9	16828.7	20584.2
55°	21934.6	21769.0	22151.2	22704.1	21312.9	18049.1	17419.8	16352.2	17768.8	19396.9	24592.0
57.5°	22806.0	22803.4	23593.3	24579.3	23702.8	20003.3	19368.9	18602.0	20278.5	22339.7	28847.0
60°	23394.5	23560.1	25027.7	26941.2	26049.4	22260.7	21677.3	21198.3	23132.1	25629.0	32811.5
62.5°	23702.8	23927.0	25929.7	27899.2	29366.7	26018.8	25435.4	24744.9	26908.0	29236.8	35130.0
65°	22421.2	22862.0	25789.5	28727.2	32271.3	32110.8	31848.4	30635.6	31629.2	32087.9	34291.8
67.5°	18874.6	19325.6	22734.6	27955.2	34345.3	37986.2	38042.2	35970.8	34533.8	32332.5	28831.7
70°	13447.6	13801.8	16622.3	23437.8	32765.6	41825.8	42016.9	38429.5	33955.4	28673.7	20143.4
72.5°	6385.0	6601.5	9271.7	15254.1	26001.0	38322.5	38691.9	35290.5	28872.4	21228.8	10989.0
75°	2346.6	2412.8	3133.9	6489.4	15080.8	28261.0	28696.6	25297.8	19139.6	10568.6	4186.1
77.5°	1406.4	1449.7	1758.0	2739.0	5931.4	16153.5	16798.1	13758.5	8364.7	3933.9	2058.7
80°	983.5	1014.1	1261.2	1704.5	2802.7	6155.7	6728.9	5615.5	3332.6	2489.3	1498.1
82.5°	665.0	680.3	886.7	1151.6	1862.5	2198.8	2372.1	2496.9	2247.2	1852.3	950.4
85°	435.7	451.0	601.3	759.3	1184.8	1136.3	1161.8	1470.1	1640.8	1258.6	527.4
87.5°	249.7	259.9	361.8	405.1	580.9	481.5	486.6	774.6	1049.7	848.4	321.0
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°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	6053.7	6020.6	5946.7	5900.9	5857.5	5847.4	5829.5	5827.0	5824.4	5824.4	5816.8
5°	5918.7	5862.6	5748.0	5684.3	5630.8	5625.7	5623.1	5635.9	5641.0	5646.1	5638.4
7.5°	5832.1	5755.6	5613.0	5521.2	5457.5	5442.2	5467.7	5526.3	5564.5	5579.8	5572.2
10°	5778.6	5684.3	5518.7	5419.3	5365.8	5358.2	5391.3	5460.1	5539.1	5569.6	5567.1
12.5°	5717.4	5610.4	5434.6	5330.1	5299.6	5314.9	5358.2	5421.9	5503.4	5551.8	5554.4
15°	5656.3	5531.4	5350.5	5258.8	5246.1	5266.4	5307.2	5355.6	5419.3	5467.7	5472.8
17.5°	5582.4	5452.4	5271.5	5177.3	5167.1	5177.3	5179.8	5205.3	5246.1	5291.9	5304.7
20°	5503.4	5370.9	5182.4	5088.1	5042.2	5001.5	4955.6	4960.7	4973.4	5019.3	5029.5
22.5°	5447.3	5314.9	5113.6	4983.6	4861.3	4739.0	4647.3	4634.6	4639.7	4677.9	4690.6
25°	5452.4	5312.3	5095.7	4871.5	4604.0	4407.8	4285.5	4265.1	4262.6	4290.6	4308.4
27.5°	5551.8	5411.7	5162.0	4756.9	4323.7	4033.3	3903.3	3888.0	3867.7	3875.3	3895.7
30°	5773.5	5643.5	5322.5	4639.7	4020.5	3666.4	3531.3	3516.1	3488.0	3475.3	3490.6
32.5°	6135.3	6028.3	5556.9	4527.6	3717.3	3353.0	3215.4	3182.3	3164.5	3149.2	3161.9
35°	6736.6	6690.7	5870.3	4405.3	3449.8	3110.9	2986.1	2935.1	2909.7	2937.7	2958.1
37.5°	7679.3	7704.8	6280.5	4214.2	3243.4	2950.4	2846.0	2787.4	2749.2	2772.1	2795.0
40°	9014.4	9032.2	6734.0	3944.1	3065.1	2856.2	2744.1	2690.5	2637.0	2596.3	2593.7
42.5°	10767.3	10586.4	7179.9	3651.1	2858.7	2797.6	2672.7	2606.5	2524.9	2412.8	2389.9
45°	12846.4	12211.9	7518.8	3314.8	2626.9	2726.2	2593.7	2502.0	2374.6	2252.3	2239.6
47.5°	15241.3	13957.2	7684.4	2965.7	2410.3	2621.8	2496.9	2351.7	2191.2	2130.0	2122.4
50°	18166.3	16028.6	7763.4	2626.9	2221.7	2484.2	2356.8	2186.1	2051.0	2038.3	2030.7
52.5°	21496.4	18520.5	7788.8	2349.1	2066.3	2305.8	2242.1	2076.5	1969.5	1979.7	1979.7
55°	24981.9	21093.8	7442.3	2147.9	1923.6	2122.4	2165.7	2033.2	1944.0	1984.8	2000.1
57.5°	28182.0	23374.1	6351.8	1992.4	1788.6	1982.2	2137.7	2074.0	2012.8	2178.4	2188.6
60°	30638.1	24722.0	4744.1	1852.3	1689.2	1933.8	2211.5	2229.4	2244.7	2639.6	2693.1
62.5°	31152.8	24273.5	3261.3	1742.7	1643.4	1974.6	2346.6	2349.1	2331.3	2606.5	2639.6
65°	28790.9	21437.8	2372.1	1681.6	1605.2	2048.5	2461.2	2407.7	2290.5	2499.5	2438.3
67.5°	22864.6	16150.9	1974.6	1635.7	1549.1	2043.4	2583.5	2461.2	2267.6	2448.5	2349.1
70°	14841.3	9766.0	1758.0	1597.5	1482.9	1946.6	2654.9	2456.1	2201.4	2277.8	2160.6
72.5°	7241.0	4367.0	1612.8	1541.5	1414.1	1811.5	2652.3	2410.3	2132.6	2127.5	2063.8
75°	2833.2	2000.1	1480.3	1457.4	1296.9	1658.7	2581.0	2344.0	2051.0	1969.5	1946.6
77.5°	1658.7	1426.8	1312.2	1332.5	1156.7	1505.8	2476.5	2229.4	1938.9	1842.1	1816.6
80°	1207.7	1067.6	1118.5	1151.6	988.6	1352.9	2336.4	2089.3	1814.1	1862.5	1826.8
82.5°	774.6	687.9	907.0	940.2	823.0	1197.5	2183.5	1941.5	1638.3	1488.0	1452.3
85°	394.9	435.7	675.2	716.0	634.4	983.5	1997.5	1745.3	1439.5	1238.3	1258.6
87.5°	221.7	298.1	430.6	481.5	448.4	756.7	1620.4	1439.5	1174.6	955.5	840.8
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)