

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: P192378

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192378
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58506 lumens
Efficiency: N/A
Efficacy: 104.8 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

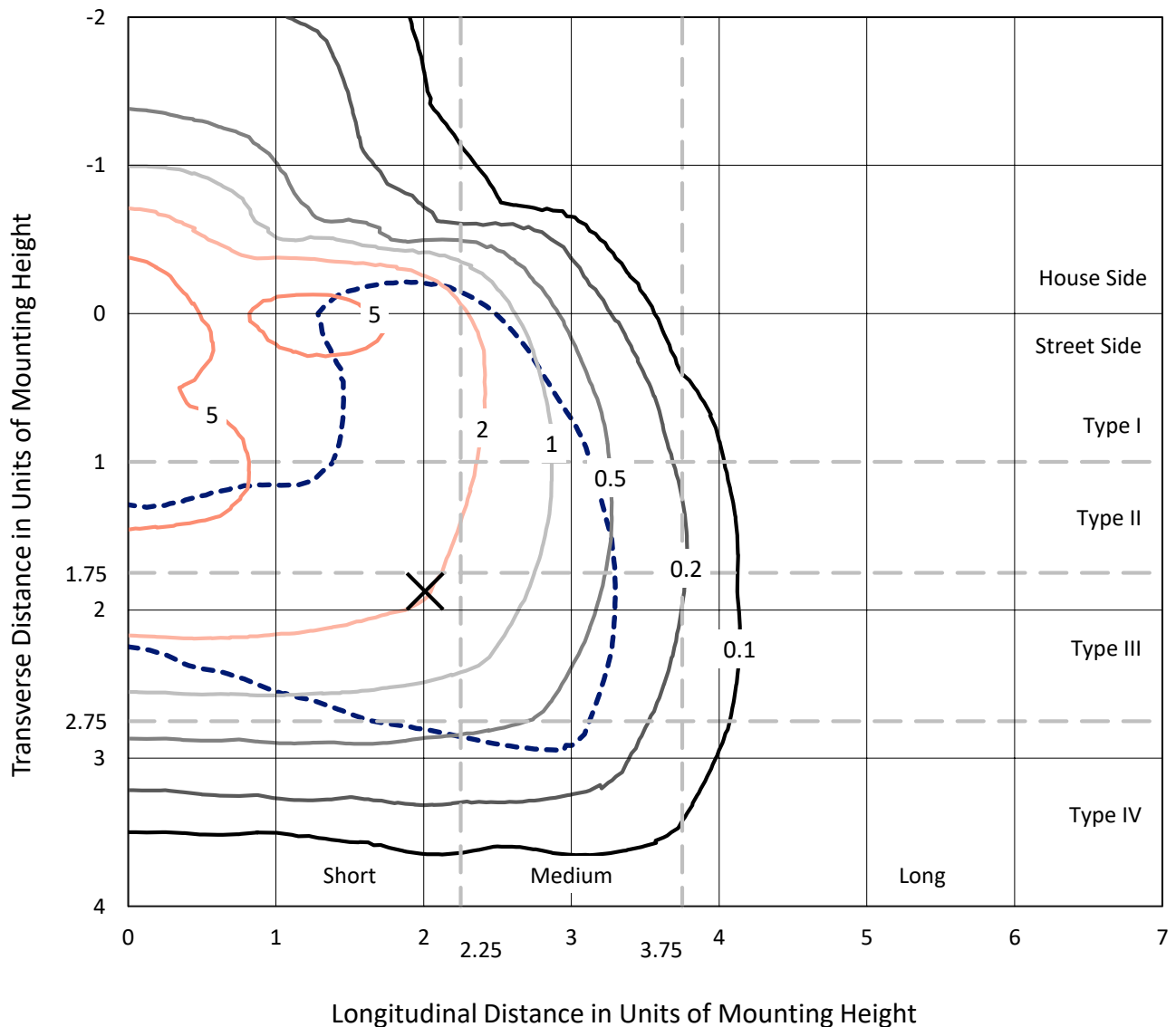
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

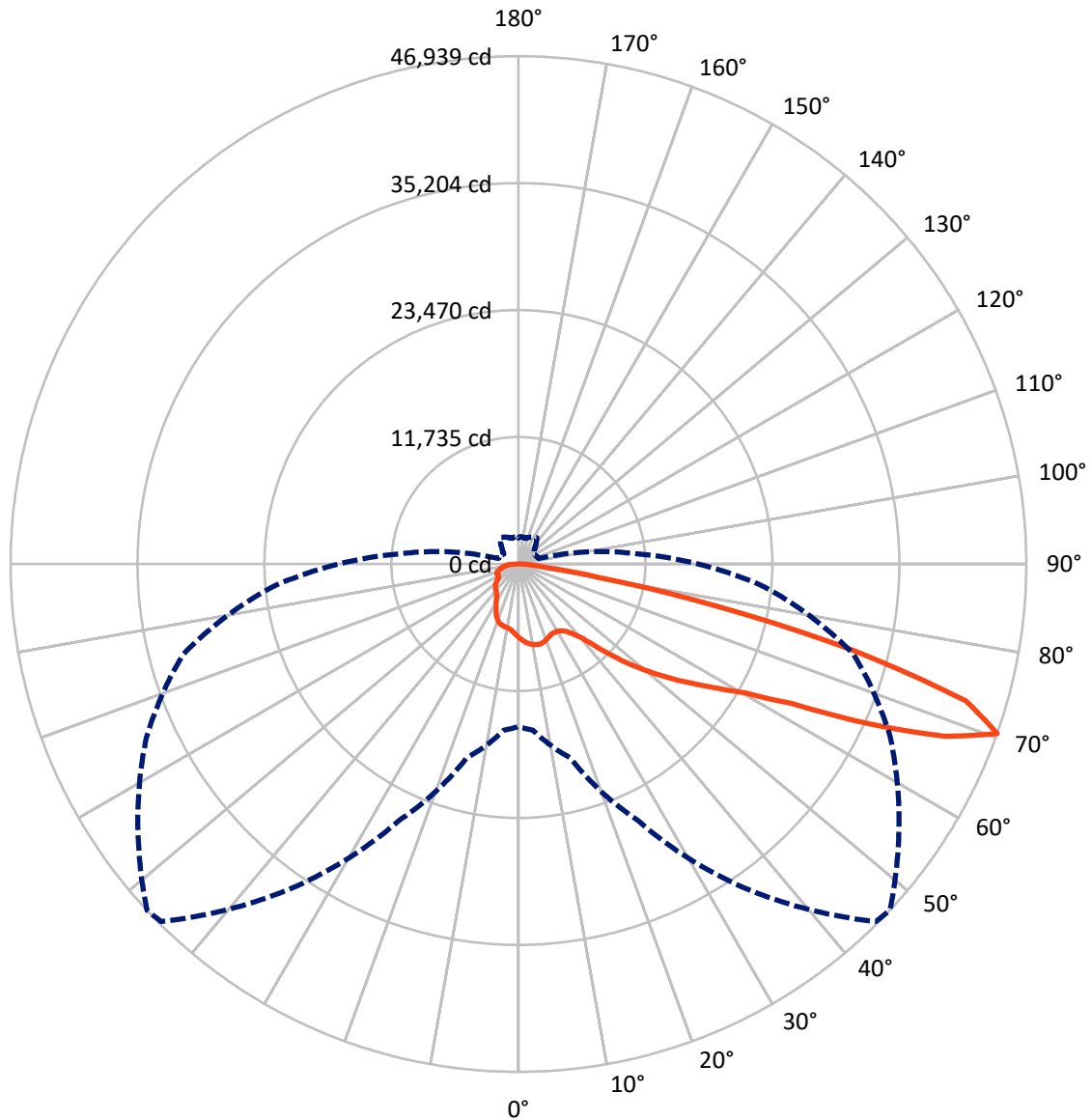
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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	12205.5	0.0	12205.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	46300.5	0.0	46300.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	58506.0	0.0	58506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.4	1.1
10°-20°	1908.3	3.3
20°-30°	2818.0	4.8
30°-40°	4095.9	7.0
40°-50°	7371.2	12.6
50°-60°	12769.8	21.8
60°-70°	18226.2	31.2
70°-80°	9356.3	16.0
80°-90°	1309.9	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°	58506.0	100.0
0°-180°	58506.0	100.0

Coefficient of Utilization



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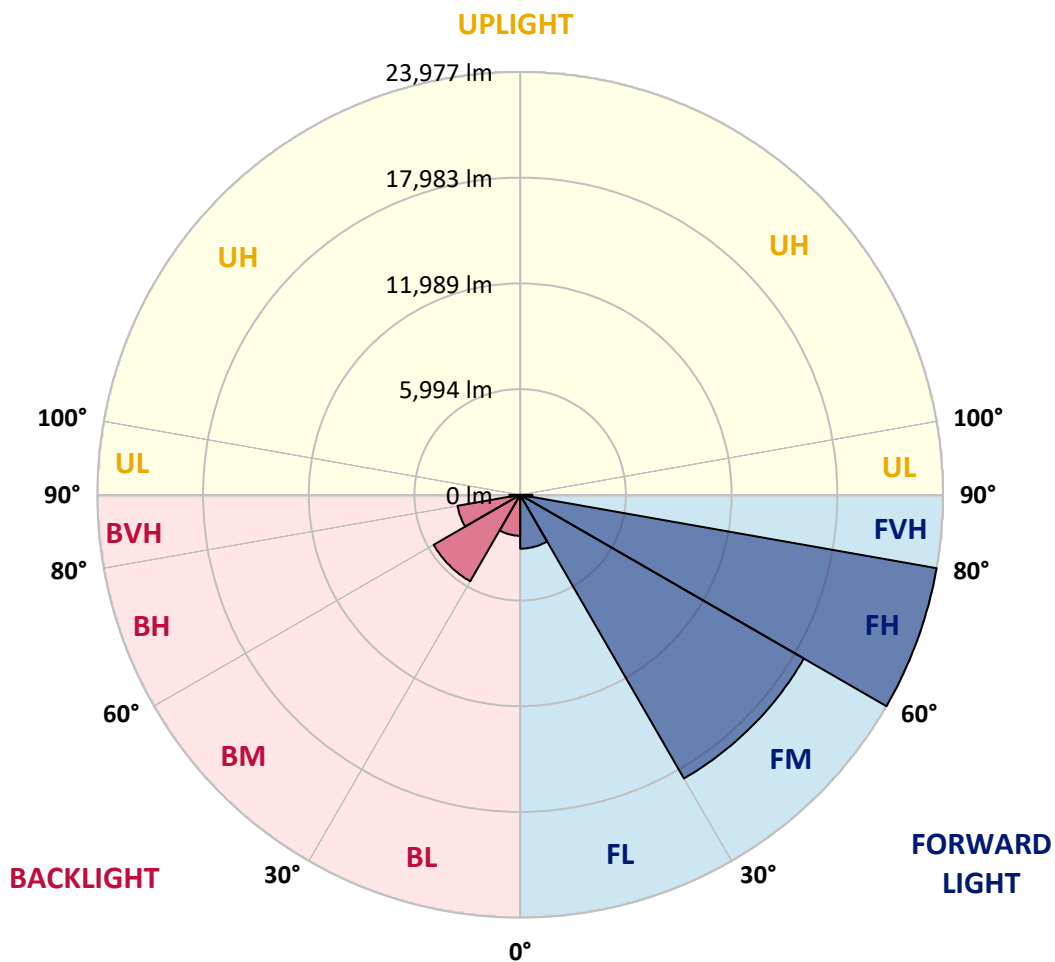
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3052.7	5.2			
FM	(30°-60°)	18571.4	31.7			
FH	(60°-80°)	23977.4	41.0			G5
FVH	(80°-90°)	699.0	1.2			G4/750
BL	(0°-30°)	2324.0	4.0	B3/2500		
BM	(30°-60°)	5665.4	9.7	B4/8500		
BH	(60°-80°)	3605.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	610.9	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°	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5
2.5°	7187.0	7172.8	7167.1	7155.7	7141.5	7070.3	7056.1	7004.8	6933.7	6859.7	6782.8
5°	7659.5	7656.7	7625.3	7568.4	7477.3	7320.8	7283.8	7158.5	6990.6	6828.4	6666.1
7.5°	8075.1	8049.4	7989.7	7875.8	7716.4	7502.9	7451.7	7278.1	7047.5	6825.5	6606.4
10°	8379.6	8365.4	8234.5	8077.9	7870.1	7633.9	7574.1	7380.6	7127.2	6845.4	6572.2
12.5°	8553.2	8524.8	8373.9	8186.1	7938.4	7707.9	7648.1	7451.7	7167.1	6845.4	6523.8
15°	8541.9	8521.9	8371.1	8166.1	7915.7	7713.6	7659.5	7463.1	7158.5	6817.0	6461.2
17.5°	8314.2	8322.7	8194.6	7992.5	7787.6	7633.9	7585.5	7403.3	7101.6	6760.1	6387.2
20°	7915.7	7955.5	7870.1	7690.8	7577.0	7471.6	7440.3	7286.6	7013.4	6677.5	6307.5
22.5°	7517.2	7554.2	7520.0	7369.2	7352.1	7289.5	7272.4	7161.4	6936.5	6626.3	6259.1
25°	7224.0	7258.2	7252.5	7121.5	7172.8	7169.9	7155.7	7101.6	6919.4	6626.3	6267.6
27.5°	7144.3	7155.7	7144.3	7024.8	7095.9	7152.8	7141.5	7132.9	6970.7	6708.8	6375.8
30°	7417.6	7400.5	7312.2	7070.3	7135.8	7215.5	7204.1	7209.8	7124.4	6925.1	6617.7
32.5°	8507.7	8430.9	8151.9	7471.6	7298.0	7340.7	7346.4	7440.3	7454.6	7258.2	6993.5
35°	10138.7	10053.3	9691.8	8547.6	7801.8	7653.8	7653.8	7796.1	7881.5	7736.3	7577.0
37.5°	11866.4	11772.5	11578.9	10039.0	8860.7	8197.5	8183.2	8282.8	8405.2	8439.4	8479.2
40°	13830.4	13730.7	13784.8	11712.7	10337.9	9139.6	8937.5	8866.3	9196.5	9415.7	9734.5
42.5°	15979.3	15933.8	15953.7	13577.0	12020.1	10548.5	10261.1	9893.9	10292.4	10682.3	11351.2
45°	17968.9	18008.8	17988.9	15572.3	13893.0	12267.7	11963.2	11251.6	11641.5	12310.4	13400.6
47.5°	19710.9	19545.8	19802.0	17752.6	15990.7	14191.8	13816.1	12862.6	13258.2	14083.7	15928.1
50°	21825.7	21803.0	21427.2	20661.6	18526.8	16124.5	15632.1	14527.7	15142.5	16289.6	19113.2
52.5°	24048.7	23636.0	23291.6	22924.4	21216.6	18105.6	17502.1	16187.1	17357.0	18800.1	22995.6
55°	24504.1	24319.1	24746.1	25363.7	23809.6	20163.5	19460.4	18267.8	19850.4	21669.2	27472.9
57.5°	25477.6	25474.7	26357.1	27458.6	26479.5	22346.6	21637.9	20781.1	22654.0	24956.7	32226.2
60°	26135.1	26320.1	27959.6	30097.2	29101.0	24868.5	24216.6	23681.5	25841.9	28631.3	36655.1
62.5°	26479.5	26730.0	28967.2	31167.4	32806.9	29066.8	28415.0	27643.6	30060.2	32661.7	39245.3
65°	25047.8	25540.2	28810.6	32092.5	36051.7	35872.4	35579.2	34224.4	35334.4	35846.8	38308.9
67.5°	21085.7	21589.5	25397.9	31230.0	38368.6	42436.1	42498.7	40184.6	38579.3	36120.0	32209.2
70°	15023.0	15418.6	18569.5	26183.5	36603.9	46725.5	46939.0	42931.3	37933.2	32032.7	22503.2
72.5°	7132.9	7374.9	10357.8	17041.0	29046.9	42811.8	43224.5	39424.6	32254.7	23715.7	12276.3
75°	2621.5	2695.5	3501.0	7249.6	16847.5	31571.6	32058.3	28261.3	21381.7	11806.6	4676.5
77.5°	1571.2	1619.6	1964.0	3059.8	6626.3	18045.8	18765.9	15370.2	9344.5	4394.7	2299.8
80°	1098.7	1132.8	1408.9	1904.2	3131.0	6876.8	7517.2	6273.3	3723.0	2780.9	1673.6
82.5°	742.9	760.0	990.5	1286.5	2080.7	2456.4	2649.9	2789.4	2510.5	2069.3	1061.7
85°	486.7	503.8	671.7	848.2	1323.5	1269.5	1297.9	1642.3	1833.0	1406.1	589.2
87.5°	278.9	290.3	404.2	452.6	649.0	538.0	543.7	865.3	1172.7	947.8	358.6
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°	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5	6788.5
2.5°	6762.9	6725.9	6643.4	6592.1	6543.7	6532.3	6512.4	6509.6	6506.7	6506.7	6498.2
5°	6612.0	6549.4	6421.3	6350.2	6290.4	6284.7	6281.9	6296.1	6301.8	6307.5	6298.9
7.5°	6515.3	6429.9	6270.5	6168.0	6096.9	6079.8	6108.2	6173.7	6216.4	6233.5	6224.9
10°	6455.5	6350.2	6165.2	6054.2	5994.4	5985.8	6022.9	6099.7	6187.9	6222.1	6219.2
12.5°	6387.2	6267.6	6071.2	5954.5	5920.4	5937.5	5985.8	6057.0	6148.1	6202.2	6205.0
15°	6318.9	6179.4	5977.3	5874.8	5860.6	5883.4	5928.9	5983.0	6054.2	6108.2	6113.9
17.5°	6236.3	6091.2	5889.1	5783.8	5772.4	5783.8	5786.6	5815.1	5860.6	5911.8	5926.1
20°	6148.1	6000.1	5789.5	5684.1	5632.9	5587.4	5536.1	5541.8	5556.1	5607.3	5618.7
22.5°	6085.5	5937.5	5712.6	5567.4	5430.8	5294.2	5191.7	5177.5	5183.2	5225.9	5240.1
25°	6091.2	5934.6	5692.7	5442.2	5143.3	4924.2	4787.5	4764.8	4761.9	4793.2	4813.2
27.5°	6202.2	6045.6	5766.7	5314.1	4830.2	4505.8	4360.6	4343.5	4320.7	4329.3	4352.1
30°	6449.8	6304.6	5946.0	5183.2	4491.5	4095.9	3945.0	3927.9	3896.6	3882.4	3899.5
32.5°	6854.0	6734.4	6207.9	5057.9	4152.8	3745.8	3592.1	3555.1	3535.2	3518.1	3532.3
35°	7525.7	7474.5	6558.0	4921.3	3853.9	3475.4	3335.9	3279.0	3250.5	3281.8	3304.6
37.5°	8578.9	8607.3	7016.2	4707.8	3623.4	3296.1	3179.4	3113.9	3071.2	3096.8	3122.4
40°	10070.3	10090.3	7522.9	4406.1	3424.1	3190.7	3065.5	3005.7	2946.0	2900.4	2897.6
42.5°	12028.6	11826.5	8021.0	4078.8	3193.6	3125.3	2985.8	2911.8	2820.7	2695.5	2669.9
45°	14351.2	13642.5	8399.5	3703.1	2934.6	3045.6	2897.6	2795.1	2652.8	2516.2	2501.9
47.5°	17026.8	15592.2	8584.6	3313.1	2692.6	2928.9	2789.4	2627.2	2447.9	2379.5	2371.0
50°	20294.4	17906.3	8672.8	2934.6	2482.0	2775.2	2632.9	2442.2	2291.3	2277.1	2268.5
52.5°	24014.6	20690.0	8701.3	2624.3	2308.4	2575.9	2504.8	2319.8	2200.2	2211.6	2211.6
55°	27908.3	23564.8	8314.2	2399.5	2149.0	2371.0	2419.4	2271.4	2171.8	2217.3	2234.4
57.5°	31483.4	26112.3	7095.9	2225.8	1998.1	2214.5	2388.1	2316.9	2248.6	2433.6	2445.0
60°	34227.2	27618.0	5299.9	2069.3	1887.1	2160.4	2470.6	2490.5	2507.6	2948.8	3008.6
62.5°	34802.2	27117.1	3643.3	1946.9	1835.9	2205.9	2621.5	2624.3	2604.4	2911.8	2948.8
65°	32163.6	23949.1	2649.9	1878.6	1793.2	2288.5	2749.6	2689.8	2558.9	2792.3	2723.9
67.5°	25543.0	18042.9	2205.9	1827.3	1730.6	2282.8	2886.2	2749.6	2533.2	2735.3	2624.3
70°	16579.9	10910.0	1964.0	1784.7	1656.6	2174.6	2965.9	2743.9	2459.2	2544.6	2413.7
72.5°	8089.3	4878.6	1801.7	1722.0	1579.7	2023.7	2963.0	2692.6	2382.4	2376.7	2305.5
75°	3165.1	2234.4	1653.7	1628.1	1448.8	1853.0	2883.3	2618.6	2291.3	2200.2	2174.6
77.5°	1853.0	1593.9	1465.9	1488.6	1292.2	1682.2	2766.6	2490.5	2166.1	2057.9	2029.4
80°	1349.2	1192.6	1249.5	1286.5	1104.4	1511.4	2610.1	2334.0	2026.6	2080.7	2040.8
82.5°	865.3	768.5	1013.3	1050.3	919.4	1337.8	2439.3	2168.9	1830.2	1662.3	1622.4
85°	441.2	486.7	754.3	799.8	708.7	1098.7	2231.5	1949.7	1608.2	1383.3	1406.1
87.5°	247.6	333.0	481.0	538.0	501.0	845.4	1810.3	1608.2	1312.2	1067.4	939.3
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)