

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: P192388

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192388
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 64180 lumens
Efficiency: N/A
Efficacy: 100.3 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

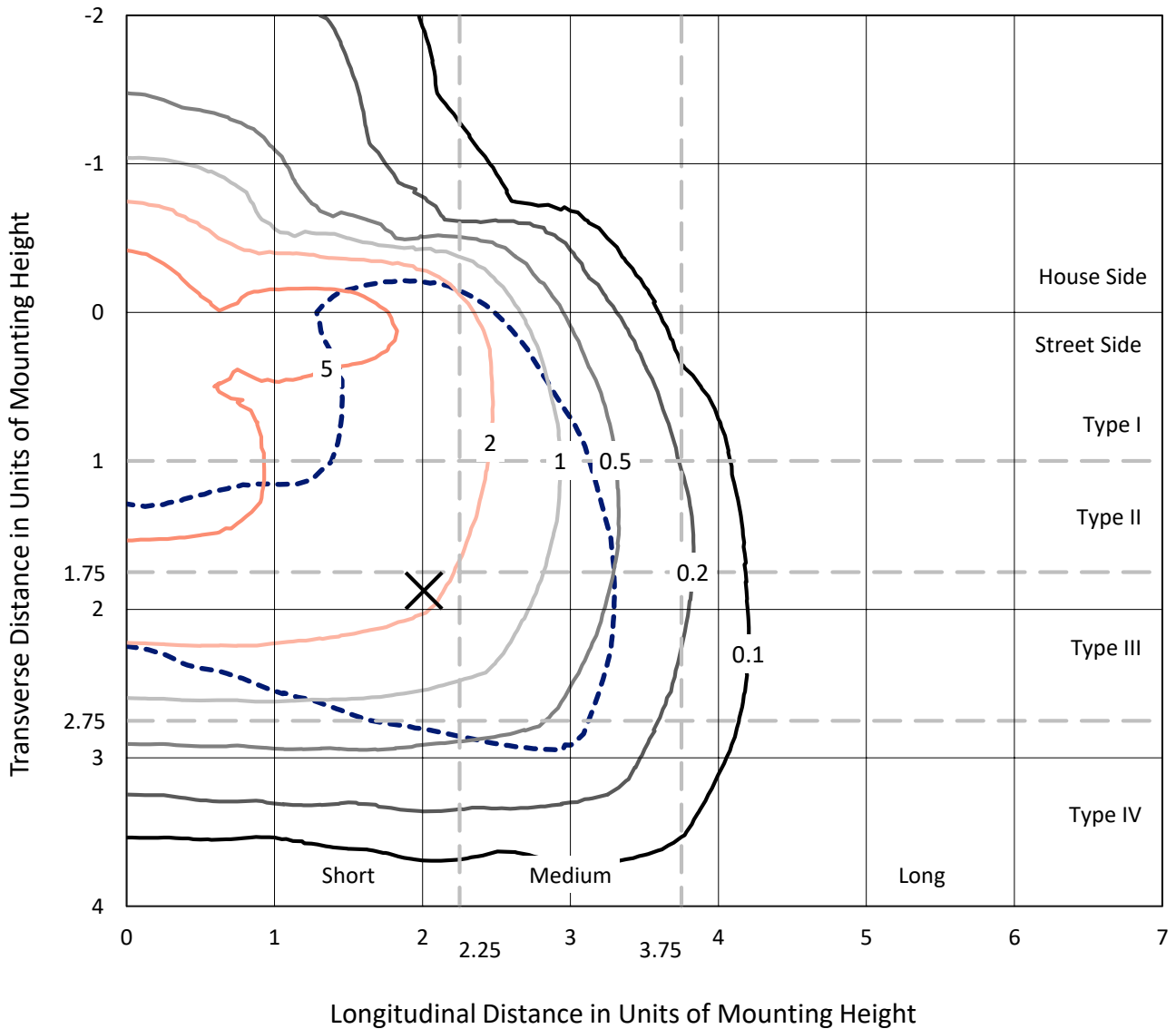


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

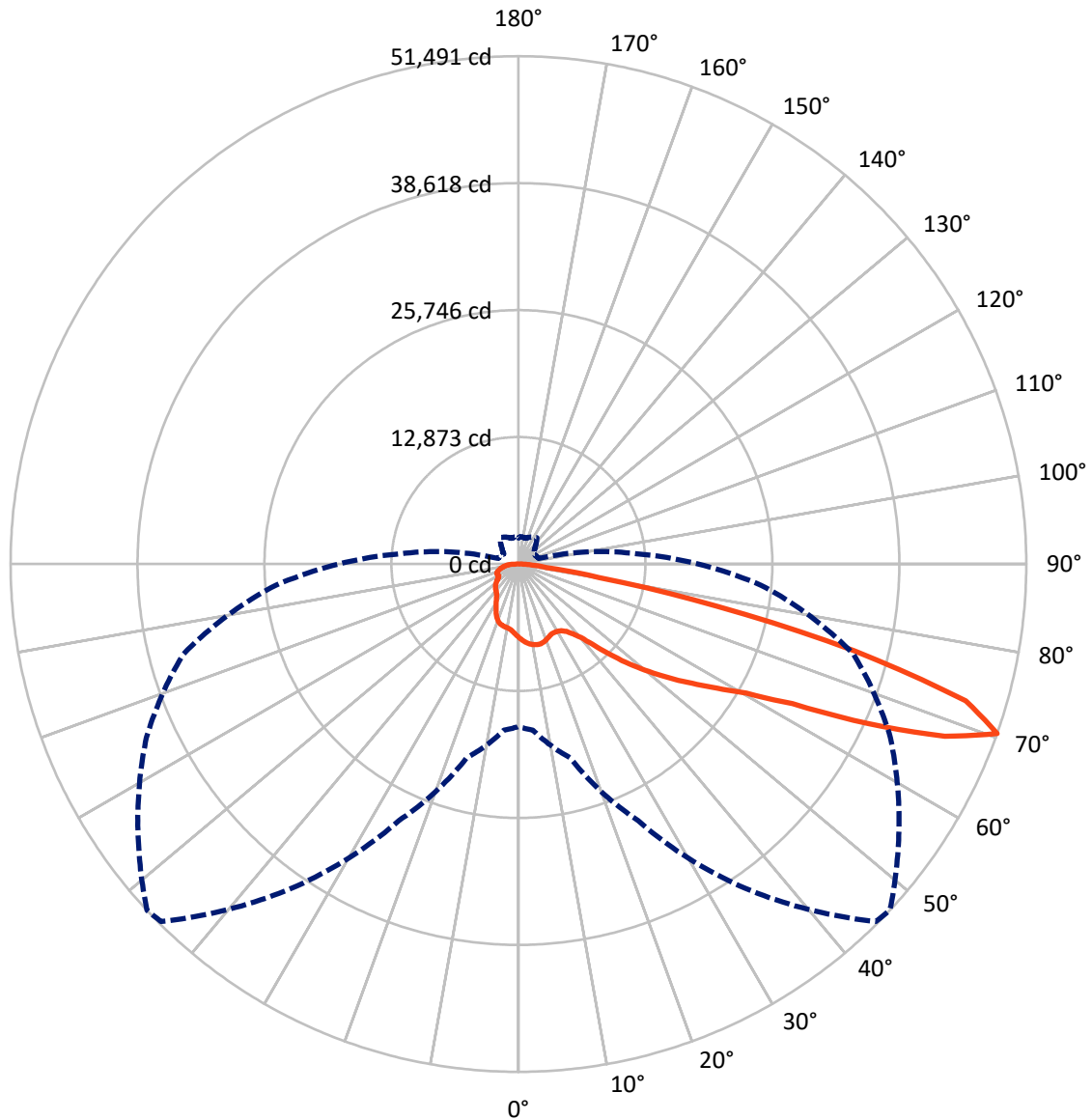


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Semi-Cutoff

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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	13389.2	0.0	13389.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	50790.8	0.0	50790.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	64180.0	0.0	64180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.5	1.1
10°-20°	2093.3	3.3
20°-30°	3091.3	4.8
30°-40°	4493.1	7.0
40°-50°	8086.1	12.6
50°-60°	14008.2	21.8
60°-70°	19993.8	31.2
70°-80°	10263.7	16.0
80°-90°	1436.9	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°	64180.0	100.0
0°-180°	64180.0	100.0



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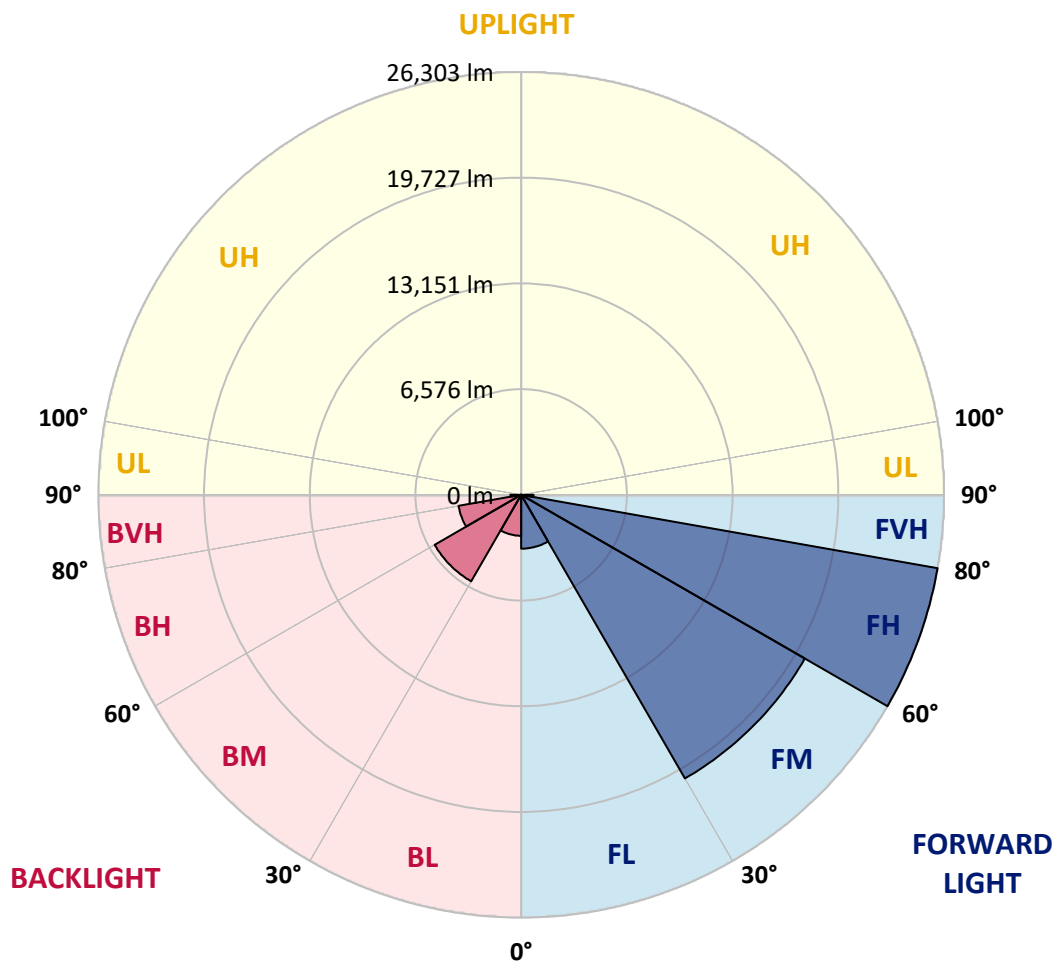
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3348.8	5.2			
FM	(30°-60°)	20372.5	31.7			
FH	(60°-80°)	26302.7	41.0			G5
FVH	(80°-90°)	766.8	1.2			G5
BL	(0°-30°)	2549.4	4.0	B4/5000		
BM	(30°-60°)	6214.9	9.7	B4/8500		
BH	(60°-80°)	3954.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	670.2	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°	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9
2.5°	7884.0	7868.4	7862.2	7849.7	7834.1	7756.0	7740.4	7684.2	7606.1	7524.9	7440.6
5°	8402.3	8399.2	8364.9	8302.4	8202.5	8030.8	7990.2	7852.8	7668.6	7490.6	7312.6
7.5°	8858.2	8830.1	8764.5	8639.6	8464.8	8230.6	8174.4	7983.9	7731.0	7487.5	7247.0
10°	9192.3	9176.7	9033.0	8861.3	8633.4	8374.2	8308.7	8096.3	7818.4	7509.3	7209.6
12.5°	9382.8	9351.5	9186.0	8980.0	8708.3	8455.4	8389.8	8174.4	7862.2	7509.3	7156.5
15°	9370.3	9348.4	9182.9	8958.1	8683.3	8461.7	8402.3	8186.9	7852.8	7478.1	7087.8
17.5°	9120.5	9129.8	8989.3	8767.6	8542.8	8374.2	8321.1	8121.3	7790.3	7415.7	7006.6
20°	8683.3	8727.1	8633.4	8436.7	8311.8	8196.2	8161.9	7993.3	7693.5	7325.1	6919.2
22.5°	8246.2	8286.8	8249.3	8083.8	8065.1	7996.4	7977.7	7855.9	7609.2	7268.9	6866.1
25°	7924.6	7962.1	7955.8	7812.2	7868.4	7865.3	7849.7	7790.3	7590.5	7268.9	6875.5
27.5°	7837.2	7849.7	7837.2	7706.0	7784.1	7846.5	7834.1	7824.7	7646.7	7359.5	6994.1
30°	8136.9	8118.2	8021.4	7756.0	7827.8	7915.2	7902.7	7909.0	7815.3	7596.8	7259.5
32.5°	9332.8	9248.5	8942.5	8196.2	8005.8	8052.6	8058.9	8161.9	8177.5	7962.1	7671.7
35°	11121.9	11028.2	10631.7	9376.5	8558.4	8396.1	8396.1	8552.2	8645.9	8486.6	8311.8
37.5°	13017.2	12914.2	12701.8	11012.6	9720.0	8992.5	8976.8	9086.1	9220.4	9257.9	9301.6
40°	15171.6	15062.4	15121.7	12848.6	11340.5	10026.0	9804.3	9726.2	10088.4	10328.8	10678.5
42.5°	17529.0	17479.1	17500.9	14893.8	13185.8	11571.5	11256.2	10853.4	11290.5	11718.3	12452.1
45°	19711.6	19755.3	19733.4	17082.5	15240.3	13457.5	13123.4	12342.8	12770.5	13504.3	14700.2
47.5°	21622.5	21441.4	21722.4	19474.3	17541.5	15568.2	15156.0	14110.0	14544.0	15449.5	17472.8
50°	23942.4	23917.4	23505.3	22665.4	20323.6	17688.3	17148.1	15936.6	16611.1	17869.4	20966.8
52.5°	26381.0	25928.2	25550.4	25147.7	23274.2	19861.5	19199.5	17757.0	19040.3	20623.3	25225.7
55°	26880.6	26677.6	27146.0	27823.5	26118.7	22118.9	21347.7	20039.4	21775.5	23770.7	30137.2
57.5°	27948.4	27945.3	28913.2	30121.6	29047.5	24513.8	23736.3	22796.5	24851.0	27377.0	35351.6
60°	28669.7	28872.7	30671.1	33016.1	31923.2	27280.2	26565.2	25978.2	28348.1	31408.0	40210.0
62.5°	29047.5	29322.3	31776.5	34190.1	35988.6	31885.8	31170.7	30324.6	32975.5	35829.3	43051.4
65°	27477.0	28017.1	31604.7	35204.8	39548.1	39351.4	39029.8	37543.5	38761.2	39323.3	42024.1
67.5°	23130.6	23683.3	27861.0	34258.8	42089.7	46551.6	46620.3	44081.8	42320.7	39623.0	35332.9
70°	16479.9	16913.9	20370.4	28722.8	40153.8	51257.0	51491.2	47094.9	41612.0	35139.3	24685.5
72.5°	7824.7	8090.1	11362.3	18693.7	31863.9	46963.7	47416.5	43248.1	35382.8	26015.7	13466.8
75°	2875.7	2956.9	3840.5	7952.7	18481.4	34633.4	35167.4	31002.1	23455.3	12951.6	5130.1
77.5°	1723.6	1776.6	2154.4	3356.6	7268.9	19795.9	20585.9	16860.9	10250.8	4821.0	2522.9
80°	1205.2	1242.7	1545.6	2088.9	3434.6	7543.7	8246.2	6881.7	4084.1	3050.6	1836.0
82.5°	814.9	833.7	1086.6	1411.3	2282.5	2694.6	2906.9	3059.9	2753.9	2270.0	1164.6
85°	533.9	552.7	736.9	930.5	1451.9	1392.6	1423.8	1801.6	2010.8	1542.5	646.3
87.5°	306.0	318.5	443.4	496.5	711.9	590.1	596.4	949.2	1286.4	1039.8	393.4
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°	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9	7446.9
2.5°	7418.8	7378.2	7287.6	7231.4	7178.4	7165.9	7144.0	7140.9	7137.8	7137.8	7128.4
5°	7253.3	7184.6	7044.1	6966.0	6900.5	6894.2	6891.1	6906.7	6913.0	6919.2	6909.8
7.5°	7147.1	7053.5	6878.6	6766.2	6688.1	6669.4	6700.6	6772.4	6819.3	6838.0	6828.6
10°	7081.6	6966.0	6763.1	6641.3	6575.7	6566.4	6607.0	6691.3	6788.1	6825.5	6822.4
12.5°	7006.6	6875.5	6660.0	6532.0	6494.6	6513.3	6566.4	6644.4	6744.3	6803.7	6806.8
15°	6931.7	6778.7	6557.0	6444.6	6429.0	6454.0	6503.9	6563.2	6641.3	6700.6	6706.9
17.5°	6841.1	6681.9	6460.2	6344.7	6332.2	6344.7	6347.8	6379.0	6429.0	6485.2	6500.8
20°	6744.3	6582.0	6350.9	6235.4	6179.2	6129.2	6073.0	6079.3	6094.9	6151.1	6163.6
22.5°	6675.6	6513.3	6266.6	6107.4	5957.5	5807.6	5695.2	5679.6	5685.9	5732.7	5748.3
25°	6681.9	6510.2	6244.8	5970.0	5642.1	5401.7	5251.8	5226.9	5223.7	5258.1	5279.9
27.5°	6803.7	6631.9	6325.9	5829.5	5298.7	4942.7	4783.5	4764.8	4739.8	4749.1	4774.1
30°	7075.3	6916.1	6522.7	5685.9	4927.1	4493.1	4327.6	4308.9	4274.5	4258.9	4277.7
32.5°	7518.7	7387.6	6809.9	5548.5	4555.6	4109.1	3940.4	3899.9	3878.0	3859.3	3874.9
35°	8255.6	8199.4	7194.0	5398.6	4227.7	3812.4	3659.4	3597.0	3565.8	3600.1	3625.1
37.5°	9410.9	9442.1	7696.7	5164.4	3974.8	3615.7	3487.7	3415.9	3369.0	3397.2	3425.3
40°	11047.0	11068.8	8252.5	4833.4	3756.2	3500.2	3362.8	3297.2	3231.7	3181.7	3178.6
42.5°	13195.2	12973.5	8798.9	4474.4	3503.3	3428.4	3275.4	3194.2	3094.3	2956.9	2928.8
45°	15743.0	14965.6	9214.1	4062.2	3219.2	3340.9	3178.6	3066.2	2910.1	2760.2	2744.6
47.5°	18678.1	17104.4	9417.1	3634.5	2953.8	3212.9	3059.9	2882.0	2685.2	2610.3	2600.9
50°	22262.6	19642.9	9513.9	3219.2	2722.7	3044.3	2888.2	2679.0	2513.5	2497.9	2488.5
52.5°	26343.5	22696.6	9545.1	2878.8	2532.3	2825.8	2747.7	2544.7	2413.6	2426.1	2426.1
55°	30614.9	25850.2	9120.5	2632.2	2357.4	2600.9	2654.0	2491.7	2382.4	2432.3	2451.1
57.5°	34536.7	28644.7	7784.1	2441.7	2191.9	2429.2	2619.7	2541.6	2466.7	2669.6	2682.1
60°	37546.6	30296.5	5813.9	2270.0	2070.1	2369.9	2710.2	2732.1	2750.8	3234.8	3300.4
62.5°	38177.3	29746.9	3996.6	2135.7	2013.9	2419.8	2875.7	2878.8	2857.0	3194.2	3234.8
65°	35282.9	26271.7	2906.9	2060.8	1967.1	2510.4	3016.2	2950.6	2807.0	3063.1	2988.1
67.5°	28020.2	19792.8	2419.8	2004.6	1898.4	2504.1	3166.1	3016.2	2778.9	3000.6	2878.8
70°	18187.9	11968.1	2154.4	1957.7	1817.2	2385.5	3253.5	3010.0	2697.7	2791.4	2647.8
72.5°	8873.8	5351.8	1976.5	1889.0	1732.9	2220.0	3250.4	2953.8	2613.4	2607.2	2529.1
75°	3472.1	2451.1	1814.1	1786.0	1589.3	2032.7	3163.0	2872.6	2513.5	2413.6	2385.5
77.5°	2032.7	1748.5	1608.0	1633.0	1417.6	1845.3	3035.0	2732.1	2376.1	2257.5	2226.3
80°	1480.0	1308.3	1370.7	1411.3	1211.5	1658.0	2863.2	2560.4	2223.1	2282.5	2238.7
82.5°	949.2	843.0	1111.6	1152.2	1008.5	1467.5	2675.9	2379.3	2007.7	1823.5	1779.8
85°	484.0	533.9	827.4	877.4	777.5	1205.2	2447.9	2138.8	1764.1	1517.5	1542.5
87.5°	271.6	365.3	527.7	590.1	549.5	927.3	1985.8	1764.1	1439.4	1170.9	1030.4
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)