

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: P269357

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269357
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-05-LED-E1-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 25666.7 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

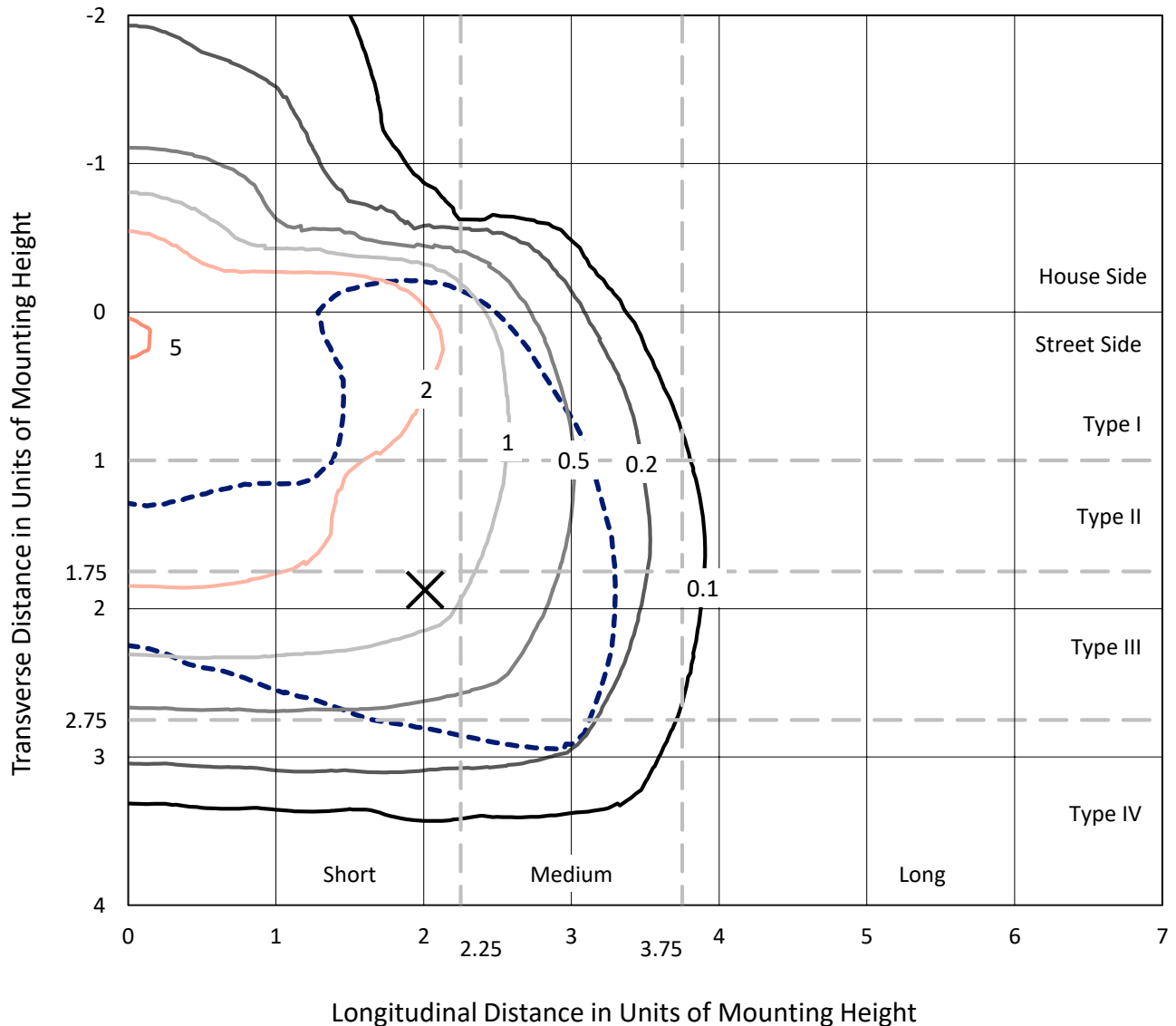
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269357
 CATALOG NUMBER: GLEON-AF-05-LED-E1-T4W-7027

Iso-Footcandle Lines of Horizontal Illumination

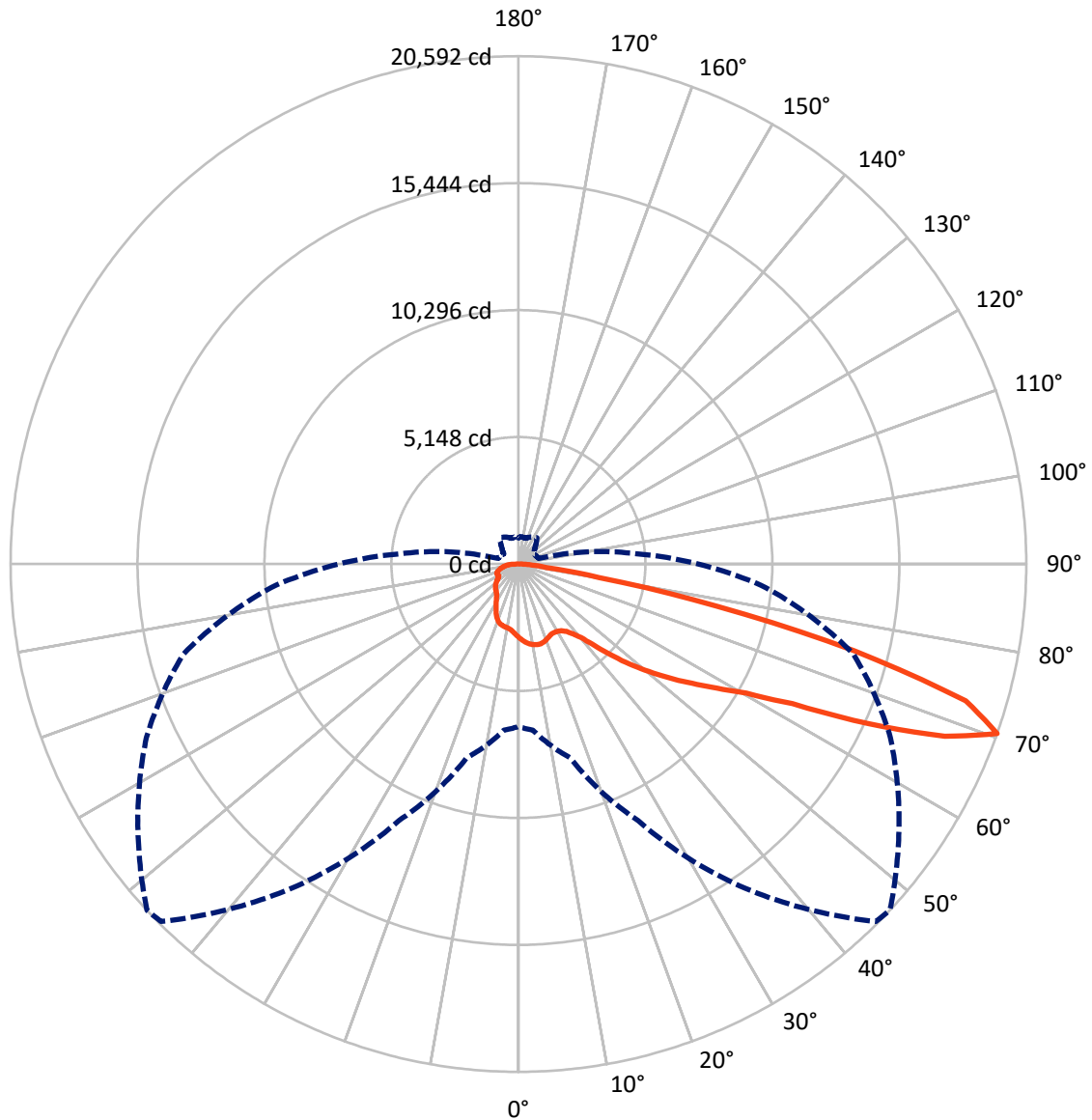
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269357
CATALOG NUMBER: GLEON-AF-05-LED-E1-T4W-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269357

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4W-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5354.6	0.0	5354.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	20312.1	0.0	20312.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	25666.7	0.0	25666.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	1.1
10°-20°	837.2	3.3
20°-30°	1236.3	4.8
30°-40°	1796.9	7.0
40°-50°	3233.8	12.6
50°-60°	5602.1	21.8
60°-70°	7995.9	31.2
70°-80°	4104.6	16.0
80°-90°	574.7	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°	25666.7	100.0
0°-180°	25666.7	100.0



REPORT NUMBER: P269357

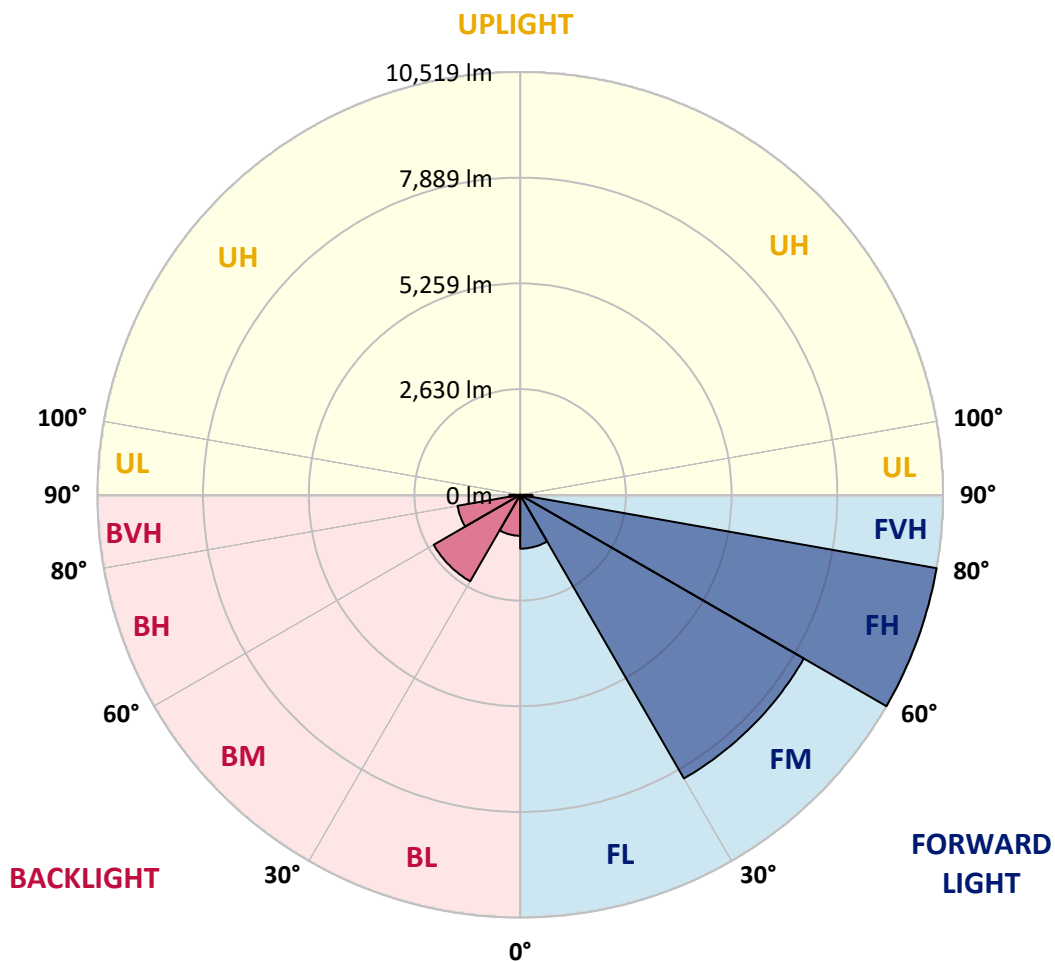
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.2	5.2			
FM	(30°-60°)	8147.3	31.7			
FH	(60°-80°)	10518.9	41.0			G4/12000
FVH	(80°-90°)	306.7	1.2			G3/500
BL	(0°-30°)	1019.5	4.0	B3/2500		
BM	(30°-60°)	2485.4	9.7	B2/2500		
BH	(60°-80°)	1581.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	268.0	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P269357

CATALOG NUMBER: GLEON-AF-05-LED-E1-T4W-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2
2.5°	3153.0	3146.8	3144.2	3139.2	3133.0	3101.8	3095.5	3073.0	3041.8	3009.3	2975.6
5°	3360.2	3359.0	3345.3	3320.2	3280.3	3211.6	3195.5	3140.5	3066.9	2995.6	2924.4
7.5°	3542.6	3531.2	3505.0	3455.2	3385.3	3291.6	3269.1	3192.9	3091.7	2994.4	2898.2
10°	3676.1	3669.9	3612.4	3543.9	3452.6	3349.1	3322.8	3237.9	3126.7	3003.2	2883.2
12.5°	3752.3	3739.9	3673.7	3591.2	3482.5	3381.5	3355.3	3269.1	3144.2	3003.2	2862.0
15°	3747.3	3738.6	3672.5	3582.5	3472.6	3383.9	3360.2	3274.1	3140.5	2990.6	2834.5
17.5°	3647.5	3651.3	3594.9	3506.4	3416.4	3349.1	3327.9	3247.8	3115.5	2965.7	2802.1
20°	3472.6	3490.2	3452.6	3373.9	3324.0	3277.8	3264.1	3196.7	3076.8	2929.5	2767.0
22.5°	3297.8	3314.0	3299.0	3232.9	3225.4	3197.8	3190.4	3141.7	3043.1	2906.9	2745.8
25°	3169.2	3184.2	3181.6	3124.2	3146.8	3145.4	3139.2	3115.5	3035.6	2906.9	2749.6
27.5°	3134.2	3139.2	3134.2	3081.7	3112.9	3138.0	3133.0	3129.2	3058.1	2943.1	2797.1
30°	3254.1	3246.7	3207.8	3101.8	3130.5	3165.4	3160.4	3162.9	3125.6	3038.1	2903.2
32.5°	3732.4	3698.6	3576.2	3277.8	3201.6	3220.3	3222.8	3264.1	3270.3	3184.2	3068.0
35°	4447.9	4410.4	4251.8	3749.9	3422.7	3357.8	3357.8	3420.1	3457.7	3393.9	3324.0
37.5°	5205.8	5164.6	5079.6	4404.1	3887.1	3596.3	3589.9	3633.7	3687.5	3702.4	3719.9
40°	6067.4	6023.8	6047.4	5138.3	4535.3	4009.6	3920.9	3889.8	4034.6	4130.6	4270.5
42.5°	7010.2	6990.3	6999.0	5956.3	5273.2	4627.7	4501.5	4340.5	4515.3	4686.4	4979.8
45°	7883.0	7900.6	7891.8	6831.6	6094.9	5381.8	5248.3	4936.0	5107.1	5400.6	5878.9
47.5°	8647.3	8574.9	8687.1	7788.1	7015.1	6226.1	6061.1	5642.9	5816.4	6178.5	6987.6
50°	9575.0	9565.1	9400.1	9064.3	8127.8	7073.9	6857.8	6373.4	6643.1	7146.2	8385.0
52.5°	10550.2	10369.1	10218.1	10057.0	9307.8	7943.0	7678.3	7101.3	7614.6	8247.6	10088.2
55°	10750.0	10668.9	10856.1	11127.1	10445.3	8845.8	8537.3	8014.0	8708.3	9506.4	12052.4
57.5°	11177.2	11175.9	11563.0	12046.2	11616.6	9803.6	9492.6	9116.7	9938.4	10948.5	14137.7
60°	11465.5	11546.6	12265.9	13203.6	12766.6	10909.8	10624.0	10389.2	11336.9	12560.6	16080.6
62.5°	11616.6	11726.6	12708.0	13673.2	14392.5	12751.7	12465.7	12127.3	13187.5	14328.8	17217.0
65°	10988.5	11204.6	12639.3	14079.0	15816.0	15737.2	15608.7	15014.4	15501.3	15726.1	16806.2
67.5°	9250.3	9471.4	11142.0	13700.7	16832.4	18616.8	18644.3	17629.1	16924.8	15845.9	14130.2
70°	6590.7	6764.1	8146.5	11486.7	16058.2	20498.7	20592.2	18834.0	16641.5	14052.8	9872.3
72.5°	3129.2	3235.3	4543.9	7476.0	12742.9	18781.7	18962.7	17295.6	14150.2	10404.1	5385.6
75°	1150.0	1182.4	1535.9	3180.4	7391.1	13850.5	14064.0	12398.2	9380.2	5179.5	2051.5
77.5°	689.3	710.5	861.7	1342.3	2906.9	7916.8	8232.6	6742.9	4099.4	1928.0	1008.9
80°	482.0	497.0	618.2	835.3	1373.6	3016.9	3297.8	2752.1	1633.3	1220.0	734.3
82.5°	325.9	333.5	434.5	564.5	912.8	1077.6	1162.5	1223.8	1101.3	907.7	465.9
85°	213.5	221.1	294.7	372.1	580.7	556.9	569.3	720.5	804.2	616.9	258.5
87.5°	122.3	127.4	177.3	198.5	284.8	236.1	238.5	379.7	514.5	415.8	157.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269357

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2	2978.2
2.5°	2966.9	2950.7	2914.5	2892.0	2870.8	2865.8	2857.0	2855.7	2854.5	2854.5	2850.9
5°	2900.7	2873.3	2817.1	2785.9	2759.7	2757.1	2755.9	2762.1	2764.7	2767.0	2763.4
7.5°	2858.2	2820.8	2750.9	2706.0	2674.8	2667.2	2679.7	2708.4	2727.2	2734.6	2730.8
10°	2832.0	2785.9	2704.6	2656.0	2629.8	2626.0	2642.3	2676.0	2714.7	2729.7	2728.4
12.5°	2802.1	2749.6	2663.5	2612.4	2597.3	2604.7	2626.0	2657.2	2697.3	2720.8	2722.1
15°	2772.1	2710.9	2622.2	2577.2	2571.0	2581.1	2601.0	2624.8	2656.0	2679.7	2682.2
17.5°	2735.9	2672.2	2583.5	2537.4	2532.3	2537.4	2538.6	2551.0	2571.0	2593.5	2599.8
20°	2697.3	2632.3	2539.9	2493.7	2471.1	2451.1	2428.7	2431.3	2437.5	2459.9	2464.9
22.5°	2669.8	2604.7	2506.1	2442.4	2382.6	2322.6	2277.7	2271.4	2273.9	2292.7	2298.9
25°	2672.2	2603.6	2497.4	2387.5	2256.5	2160.2	2100.2	2090.4	2089.1	2102.8	2111.6
27.5°	2720.8	2652.2	2529.8	2331.3	2119.0	1976.7	1913.0	1905.6	1895.6	1899.2	1909.3
30°	2829.5	2765.8	2608.5	2273.9	1970.4	1796.9	1730.7	1723.2	1709.5	1703.2	1710.7
32.5°	3006.8	2954.4	2723.4	2219.0	1821.9	1643.3	1575.8	1559.5	1550.8	1543.4	1549.7
35°	3301.5	3279.1	2877.0	2158.9	1690.7	1524.7	1463.5	1438.5	1426.0	1439.8	1449.8
37.5°	3763.5	3776.0	3078.0	2065.4	1589.6	1446.0	1394.8	1366.1	1347.4	1358.5	1369.8
40°	4417.9	4426.6	3300.4	1933.1	1502.1	1399.7	1344.9	1318.6	1292.4	1272.4	1271.2
42.5°	5277.1	5188.3	3518.8	1789.3	1401.0	1371.1	1309.9	1277.4	1237.4	1182.4	1171.3
45°	6296.0	5985.0	3684.8	1624.6	1287.5	1336.0	1271.2	1226.2	1163.8	1103.8	1097.5
47.5°	7469.6	6840.4	3766.1	1453.5	1181.4	1284.9	1223.8	1152.5	1073.8	1043.9	1040.1
50°	8903.2	7855.6	3804.9	1287.5	1088.8	1217.5	1155.0	1071.4	1005.3	998.9	995.2
52.5°	10535.2	9076.7	3817.3	1151.3	1012.7	1130.1	1098.8	1017.7	965.3	970.2	970.2
55°	12243.4	10338.0	3647.5	1052.6	942.9	1040.1	1061.3	996.5	952.7	972.8	980.2
57.5°	13811.8	11455.5	3112.9	976.5	876.6	971.4	1047.7	1016.4	986.5	1067.6	1072.7
60°	15015.6	12116.1	2325.1	907.7	827.9	947.7	1083.8	1092.6	1100.2	1293.6	1319.9
62.5°	15267.9	11896.3	1598.4	854.1	805.4	967.7	1150.0	1151.3	1142.6	1277.4	1293.6
65°	14110.2	10506.5	1162.5	824.1	786.6	1003.9	1206.2	1180.1	1122.6	1225.0	1194.9
67.5°	11205.7	7915.4	967.7	801.6	759.2	1001.4	1266.3	1206.2	1111.4	1200.0	1151.3
70°	7273.7	4786.3	861.7	783.0	726.8	954.0	1301.1	1203.8	1078.9	1116.4	1058.9
72.5°	3548.8	2140.2	790.4	755.5	693.0	887.9	1299.8	1181.4	1045.2	1042.7	1011.4
75°	1388.5	980.2	725.6	714.2	635.6	812.8	1265.0	1148.8	1005.3	965.3	954.0
77.5°	812.8	699.3	643.0	653.1	566.9	738.0	1213.7	1092.6	950.2	902.7	890.3
80°	591.9	523.3	548.1	564.5	484.5	663.0	1145.1	1023.9	889.1	912.8	895.3
82.5°	379.7	337.1	444.5	460.8	403.2	587.0	1070.2	951.6	802.9	729.2	711.7
85°	193.6	213.5	330.8	350.9	311.0	482.0	979.0	855.4	705.4	606.9	616.9
87.5°	108.7	146.2	211.0	236.1	219.7	370.9	794.2	705.4	575.6	468.2	412.1
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)