

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: P269427

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24995.4 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

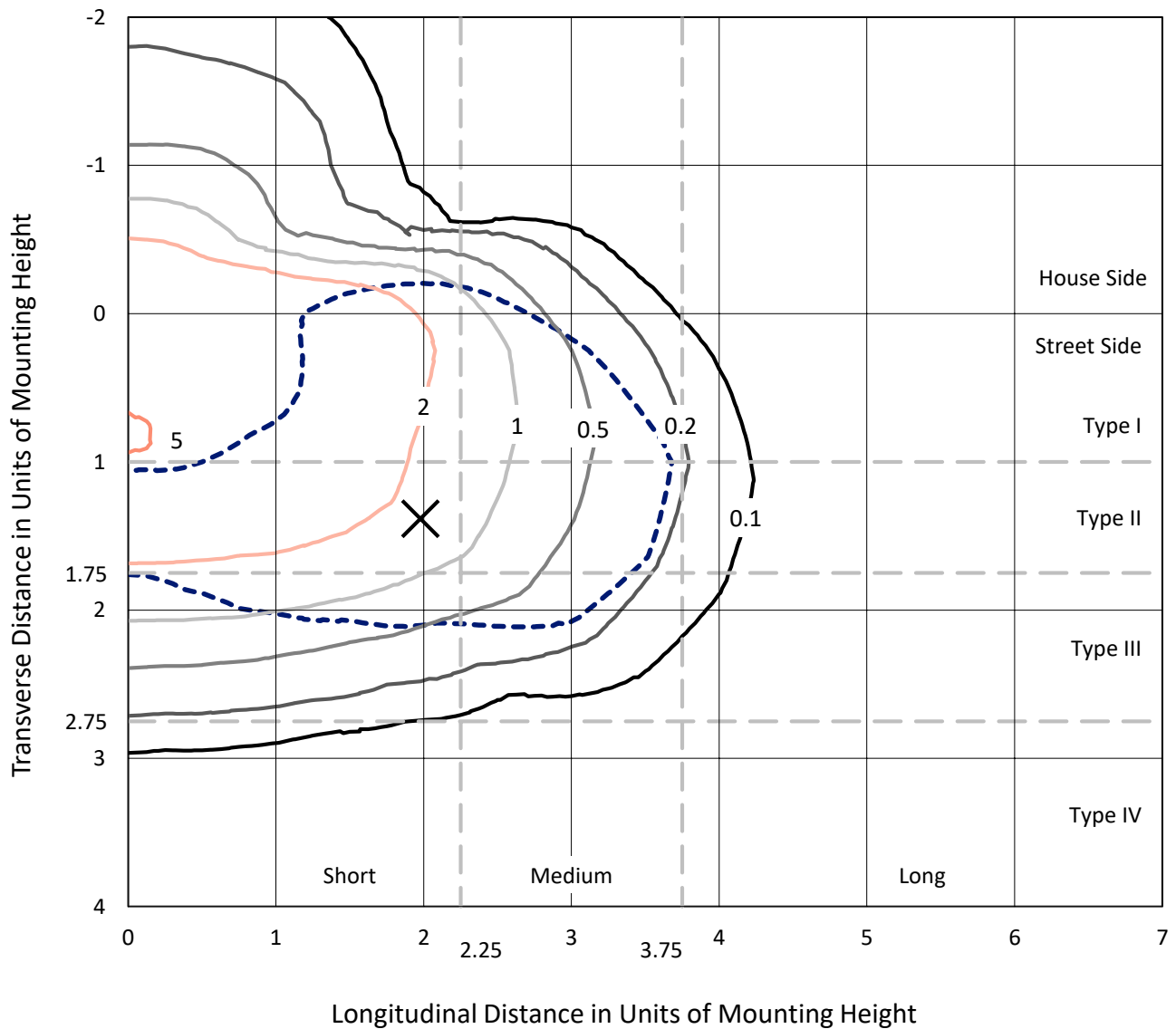


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Iso-Footcandle Lines of Horizontal Illumination

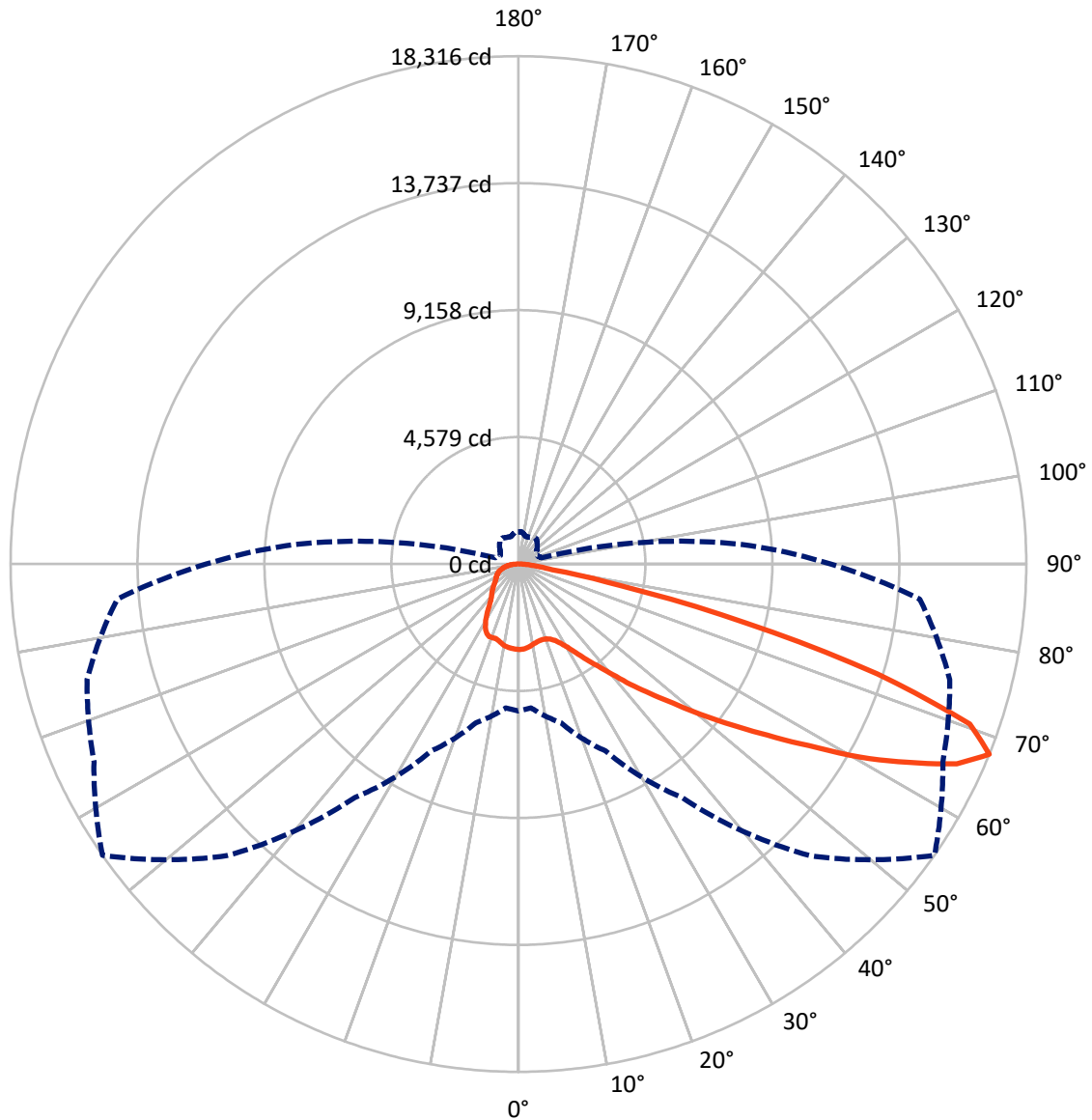
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5399.5	0.0	5399.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19595.8	0.0	19595.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	24995.4	0.0	24995.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	1.2
10°-20°	814.8	3.3
20°-30°	1364.9	5.5
30°-40°	2244.4	9.0
40°-50°	3778.1	15.1
50°-60°	5946.4	23.8
60°-70°	7096.4	28.4
70°-80°	3047.3	12.2
80°-90°	415.5	1.7
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°	24995.4	100.0
0°-180°	24995.4	100.0



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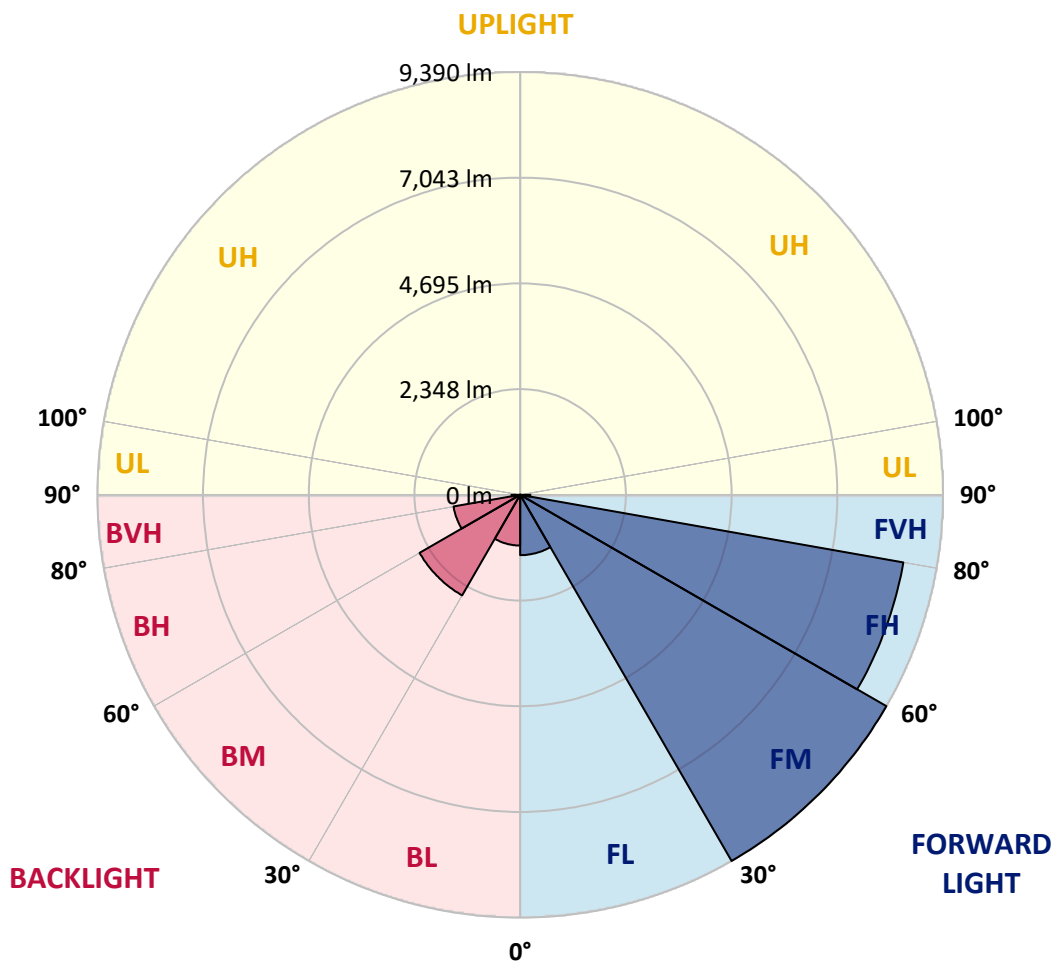
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.8	5.4			
FM	(30°-60°)	9390.1	37.6			
FH	(60°-80°)	8641.0	34.6			G4/12000
FVH	(80°-90°)	224.9	0.9			G2/225
BL	(0°-30°)	1127.5	4.5	B3/2500		
BM	(30°-60°)	2578.8	10.3	B3/5000		
BH	(60°-80°)	1502.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	190.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3
2.5°	3055.7	3056.8	3059.3	3068.9	3077.4	3075.0	3076.2	3071.3	3070.1	3063.0	3070.1
5°	3017.0	3020.6	3021.9	3037.4	3047.2	3049.6	3046.1	3040.0	3032.7	3025.4	3029.1
7.5°	2928.8	2938.5	2939.8	2961.5	2977.2	2997.7	2998.9	3000.1	2996.4	2991.6	2998.9
10°	2873.4	2875.7	2874.5	2890.2	2902.3	2925.3	2938.5	2961.5	2971.1	2973.6	2978.4
12.5°	2869.7	2867.3	2863.6	2863.6	2860.1	2869.7	2893.9	2926.5	2949.4	2956.6	2962.7
15°	2908.4	2907.2	2895.1	2876.9	2854.1	2846.8	2867.3	2903.5	2933.8	2949.4	2955.5
17.5°	2995.3	2988.0	2968.7	2927.7	2878.2	2858.9	2861.3	2891.5	2926.5	2947.0	2953.0
20°	3154.7	3154.7	3113.5	3036.4	2948.1	2902.3	2880.5	2898.7	2932.4	2960.3	2968.7
22.5°	3429.9	3432.3	3363.6	3236.8	3088.3	2990.5	2936.1	2932.4	2972.3	3003.8	3013.4
25°	3819.9	3810.3	3713.7	3532.6	3306.8	3145.0	3050.9	3029.1	3063.0	3098.0	3110.0
27.5°	4273.7	4238.8	4124.1	3905.7	3613.4	3376.8	3231.9	3196.9	3229.4	3269.3	3281.4
30°	4722.8	4686.6	4550.3	4311.2	3986.5	3687.1	3479.4	3422.6	3468.5	3525.3	3532.6
32.5°	5172.0	5172.0	5019.9	4741.1	4387.3	4057.7	3809.1	3741.4	3817.4	3886.2	3902.0
35°	5709.3	5711.7	5564.5	5228.8	4848.4	4499.6	4225.4	4176.0	4290.8	4339.1	4376.5
37.5°	6369.6	6382.9	6193.4	5787.7	5371.2	5004.2	4678.3	4610.6	4725.4	4857.0	4977.7
40°	7083.1	7100.1	6891.2	6391.4	5974.8	5591.0	5238.5	5116.4	5307.2	5558.4	5714.1
42.5°	7764.1	7850.9	7649.3	7135.1	6687.2	6289.9	5932.5	5755.1	5994.2	6373.2	6508.5
45°	8748.1	8810.8	8459.5	7993.5	7572.2	7127.8	6654.6	6467.4	6801.8	7280.0	7307.7
47.5°	9403.5	9356.4	9177.9	8888.0	8621.3	8205.9	7493.7	7288.4	7732.7	8295.3	8139.5
50°	9752.4	9766.9	9742.7	9759.7	9769.3	9508.6	8522.2	8241.0	8771.0	9450.7	9092.0
52.5°	10078.4	9981.8	10061.6	10457.4	10935.5	10838.9	9641.4	9348.0	9884.1	10732.8	10098.9
55°	10071.2	9923.8	10183.5	10882.4	11919.5	12030.6	10898.1	10560.1	11061.2	12107.9	11166.2
57.5°	9715.0	9722.3	10121.9	11037.0	12605.2	13150.9	12356.5	11849.5	12309.6	13501.0	12140.5
60°	9224.9	9291.3	9867.2	11011.7	13154.6	14069.8	14145.8	13239.1	13532.4	14767.5	12946.9
62.5°	8434.0	8504.2	9298.5	10748.5	13071.2	14954.7	15763.5	14815.8	14811.1	15535.4	13183.5
65°	7187.0	7166.5	8000.7	9764.5	12372.3	15608.9	17370.4	16178.8	15774.3	15547.4	12708.0
67.5°	5300.0	5208.3	5924.1	7436.9	10283.6	14876.2	18315.7	16888.8	16102.7	14524.9	11254.3
70°	2750.3	2658.4	3237.9	4342.5	6763.2	11610.5	17269.0	16521.7	15377.2	12175.4	8816.9
72.5°	1175.9	1160.3	1395.6	1905.0	3271.7	6696.9	13541.0	14300.3	13194.5	9071.5	6061.9
75°	790.8	785.9	874.1	1038.4	1471.8	2717.6	8473.9	10150.8	9653.5	5624.7	3409.3
77.5°	620.5	614.5	666.5	746.1	953.8	1072.0	3760.8	5449.7	5044.1	2448.4	1492.3
80°	485.4	480.6	513.1	556.6	685.8	676.1	1237.4	2168.2	1678.2	938.1	725.7
82.5°	382.7	382.7	409.3	410.4	486.5	461.2	645.9	955.0	837.8	546.9	444.3
85°	350.1	350.1	377.8	306.6	317.6	291.0	400.9	566.2	531.2	224.5	193.1
87.5°	176.2	171.4	317.6	271.6	172.7	154.5	195.7	274.1	294.6	124.3	96.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3	3082.3
2.5°	3067.7	3066.5	3068.9	3070.1	3079.7	3093.0	3099.2	3107.5	3112.4	3110.0
5°	3031.5	3033.9	3043.5	3050.9	3067.7	3089.5	3101.5	3111.2	3119.6	3116.0
7.5°	3001.2	3007.3	3021.9	3027.8	3037.4	3043.5	3042.4	3046.1	3053.2	3044.7
10°	2984.3	2991.6	3002.6	2994.1	2971.1	2938.5	2908.4	2892.6	2897.6	2891.5
12.5°	2967.6	2977.2	2968.7	2928.8	2864.9	2822.7	2799.7	2802.2	2813.0	2815.4
15°	2957.8	2961.5	2925.3	2850.4	2785.3	2779.1	2791.3	2788.9	2790.0	2790.0
17.5°	2957.8	2948.1	2880.5	2805.8	2778.0	2767.0	2729.7	2682.6	2662.0	2654.9
20°	2973.6	2948.1	2866.1	2816.5	2756.2	2663.3	2564.3	2477.3	2438.7	2427.8
22.5°	3020.6	2977.2	2907.2	2821.4	2650.0	2494.2	2337.3	2233.5	2163.5	2151.4
25°	3116.0	3067.7	2988.0	2757.4	2480.9	2258.9	2080.1	1964.2	1894.3	1884.6
27.5°	3282.6	3251.2	3031.5	2616.3	2256.5	2018.6	1853.3	1763.8	1711.9	1708.2
30°	3533.8	3518.0	3009.9	2407.4	1980.0	1785.7	1705.9	1654.0	1615.3	1614.2
32.5°	3934.5	3807.7	2938.5	2152.6	1727.6	1620.2	1587.6	1556.3	1526.0	1526.0
35°	4450.1	4042.1	2803.3	1879.8	1574.3	1528.5	1487.4	1437.8	1398.0	1395.6
37.5°	5056.1	4186.9	2560.7	1660.0	1501.8	1466.8	1406.4	1332.8	1262.7	1250.7
40°	5668.2	4230.4	2219.1	1524.9	1456.1	1405.3	1331.6	1244.7	1177.0	1173.5
42.5°	6229.6	4147.0	1856.7	1431.9	1410.1	1342.4	1265.3	1188.0	1134.9	1133.7
45°	6700.5	3931.0	1552.6	1343.8	1361.8	1285.7	1216.9	1154.1	1113.1	1104.6
47.5°	7143.5	3625.5	1338.8	1250.7	1313.5	1254.4	1196.5	1137.3	1097.4	1091.4
50°	7657.8	3295.9	1189.1	1160.3	1271.3	1243.6	1213.3	1151.7	1085.3	1078.1
52.5°	8280.8	3010.9	1072.0	1080.5	1238.7	1257.9	1256.8	1192.8	1076.9	1067.2
55°	8976.1	2694.6	984.0	1015.4	1225.4	1284.5	1267.7	1231.4	1084.2	1069.6
57.5°	9660.7	2325.3	922.4	965.9	1206.1	1282.2	1215.8	1163.8	1101.1	1080.5
60°	10173.8	1829.0	875.3	922.4	1163.8	1242.3	1159.1	1090.2	1097.4	1081.6
62.5°	10207.6	1413.8	818.5	884.9	1099.9	1202.4	1121.5	1057.6	1113.1	1098.6
65°	9607.6	1068.4	764.2	840.3	1031.1	1177.0	1085.3	1039.5	1145.7	1130.0
67.5°	8088.8	859.6	718.4	794.5	962.3	1124.0	1052.8	1022.6	1174.8	1147.0
70°	5839.6	732.8	673.6	738.9	900.6	1063.7	1023.8	992.4	1096.2	1052.8
72.5°	3595.2	635.0	623.0	665.3	853.6	1000.8	980.3	935.7	987.5	952.6
75°	1795.3	550.5	566.2	592.8	787.2	929.7	907.8	863.2	870.5	863.2
77.5°	859.6	470.8	499.7	520.4	701.4	848.7	825.8	779.9	771.5	772.6
80°	544.6	393.5	421.3	435.9	626.6	754.5	731.6	685.8	782.3	725.7
82.5°	340.5	319.9	327.2	353.8	545.7	656.8	626.6	585.5	705.1	557.8
85°	188.4	223.4	233.0	255.9	420.1	549.4	519.1	467.2	418.9	411.8
87.5°	112.3	132.8	136.5	153.3	282.4	397.2	351.2	333.2	276.5	275.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)