

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: P269345

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269345  
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-05-LED-E1-T3-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25852.2 lumens  
Efficiency: N/A  
Efficacy: 92.7 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): 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

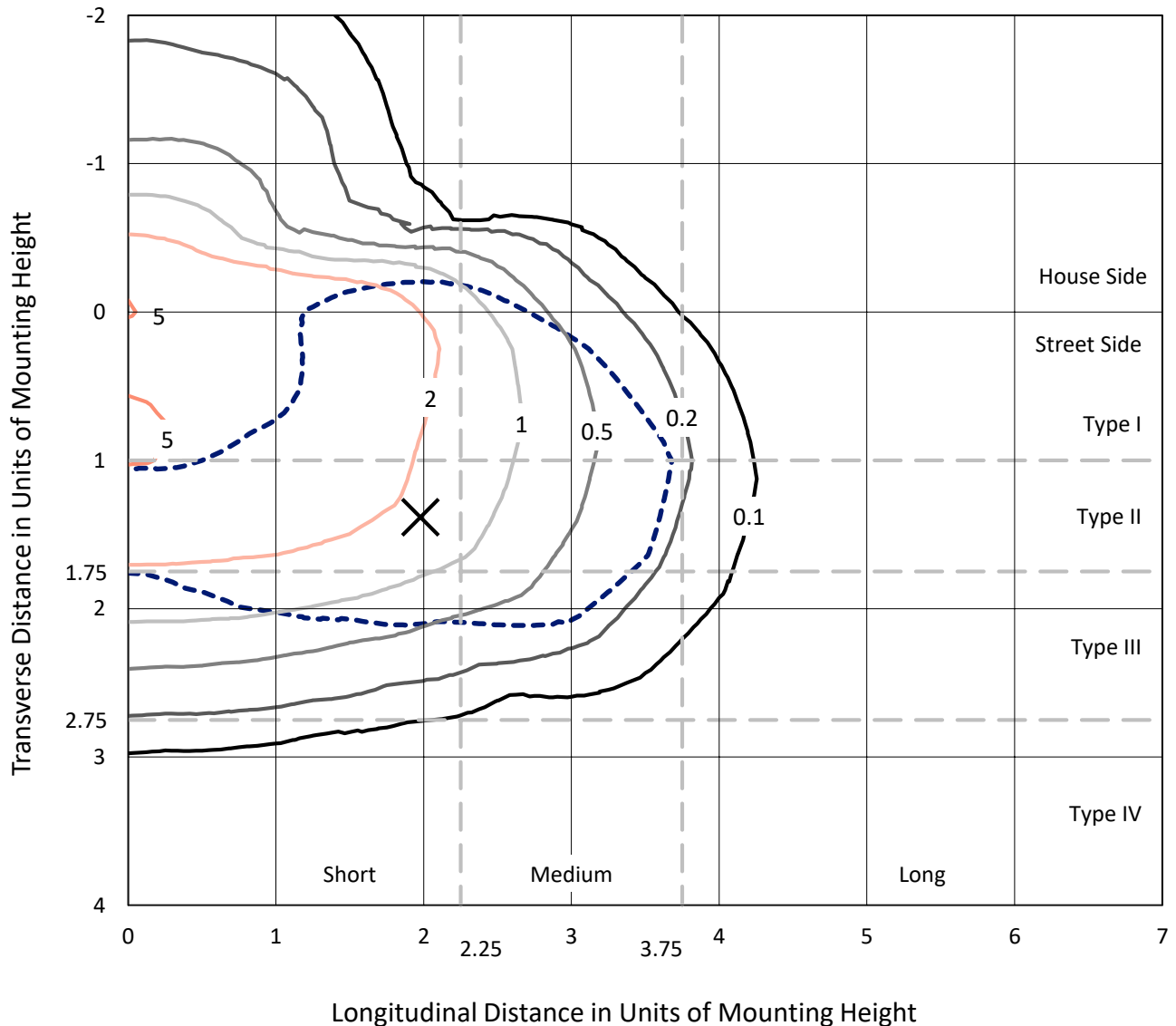


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

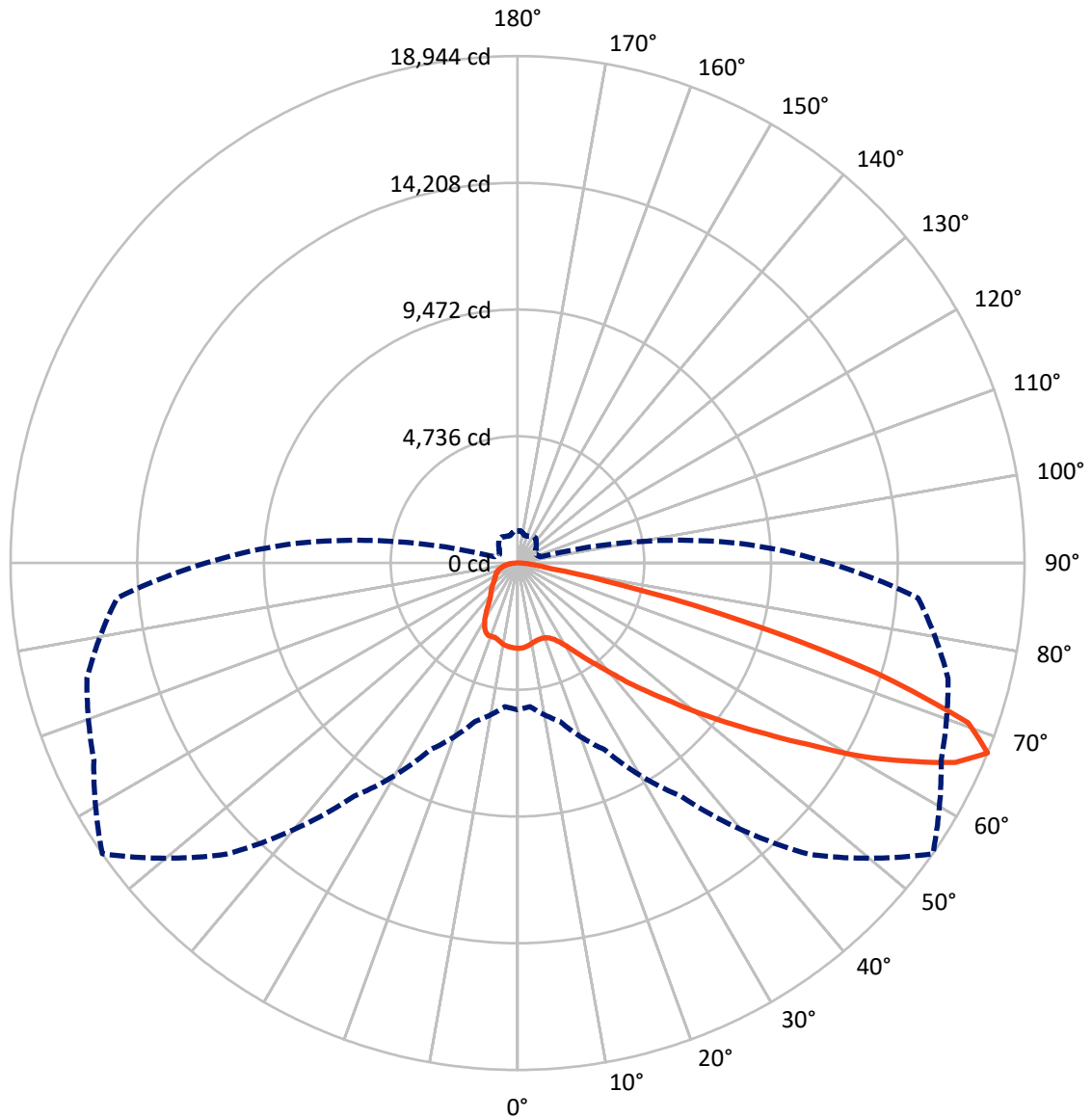


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	5584.6	0.0	5584.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	20267.6	0.0	20267.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	25852.2	0.0	25852.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.6	1.2
10°-20°	842.7	3.3
20°-30°	1411.6	5.5
30°-40°	2321.4	9.0
40°-50°	3907.6	15.1
50°-60°	6150.2	23.8
60°-70°	7339.6	28.4
70°-80°	3151.8	12.2
80°-90°	429.7	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°	25852.2	100.0
0°-180°	25852.2	100.0



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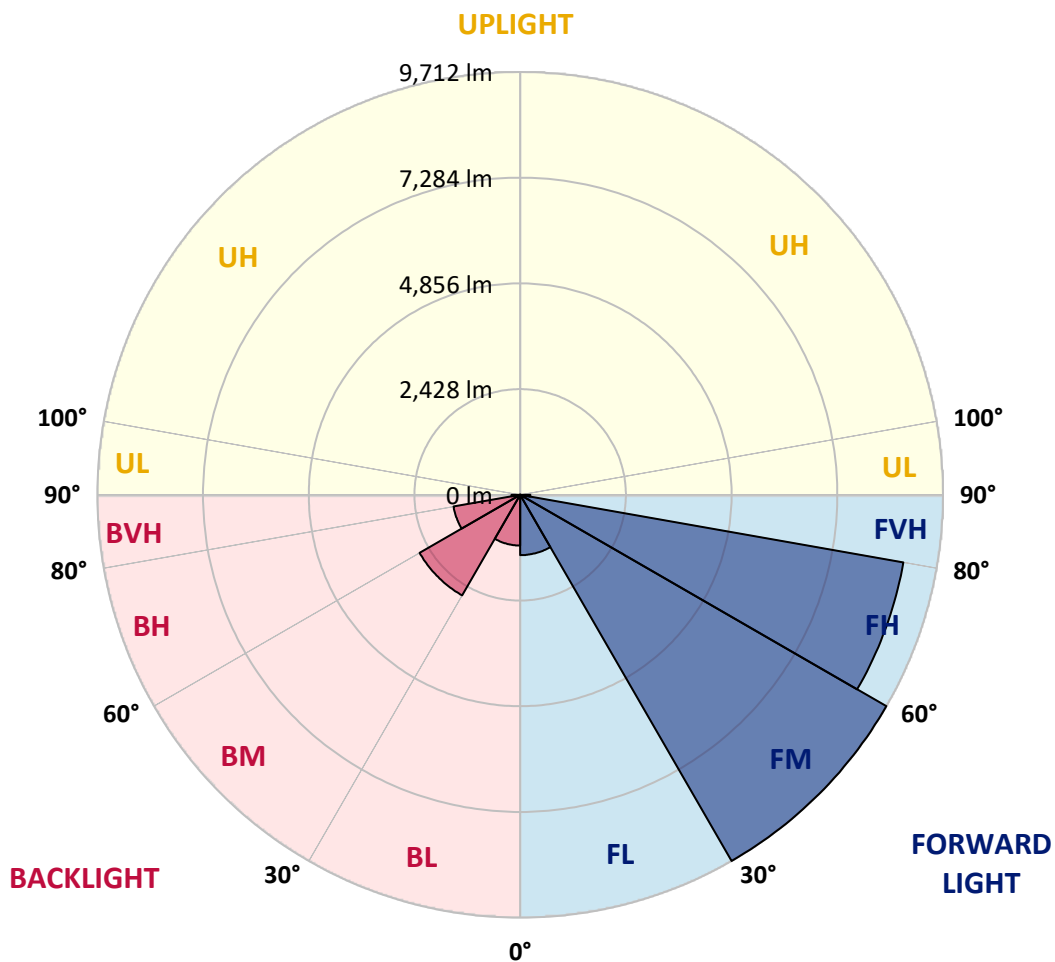
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1385.7	5.4			
FM	(30°-60°)	9712.0	37.6			
FH	(60°-80°)	8937.2	34.6			G4/12000
FVH	(80°-90°)	232.6	0.9			G3/500
BL	(0°-30°)	1166.2	4.5	B3/2500		
BM	(30°-60°)	2667.2	10.3	B3/5000		
BH	(60°-80°)	1554.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	197.1	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°	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8
2.5°	3160.3	3161.7	3164.1	3174.2	3182.9	3180.4	3181.5	3176.6	3175.4	3168.0	3175.4
5°	3120.4	3124.1	3125.5	3141.6	3151.7	3154.2	3150.4	3144.2	3136.6	3129.2	3132.8
7.5°	3029.3	3039.2	3040.6	3063.0	3079.2	3100.5	3101.7	3102.9	3099.2	3094.2	3101.7
10°	2971.9	2974.4	2973.1	2989.3	3001.7	3025.5	3039.2	3063.0	3073.0	3075.4	3080.5
12.5°	2968.1	2965.7	2961.8	2961.8	2958.1	2968.1	2993.1	3026.7	3050.6	3058.0	3064.3
15°	3008.1	3006.7	2994.3	2975.5	2951.9	2944.4	2965.7	3003.0	3034.2	3050.6	3056.8
17.5°	3098.0	3090.4	3070.4	3028.0	2976.9	2956.9	2959.3	2990.5	3026.7	3047.9	3054.2
20°	3262.7	3262.7	3220.3	3140.5	3049.2	3001.7	2979.3	2998.1	3033.0	3061.8	3070.4
22.5°	3547.4	3550.0	3478.7	3347.8	3194.2	3093.0	3036.8	3033.0	3074.2	3106.7	3116.7
25°	3950.7	3940.9	3841.0	3653.6	3420.0	3252.9	3155.3	3132.8	3168.0	3204.1	3216.7
27.5°	4420.3	4384.1	4265.4	4039.5	3737.3	3492.5	3342.8	3306.5	3340.2	3381.4	3393.8
30°	4884.9	4847.3	4706.2	4458.9	4123.1	3813.5	3598.7	3540.0	3587.4	3646.1	3653.6
32.5°	5349.2	5349.2	5191.9	4903.6	4537.7	4196.8	3939.5	3869.5	3948.3	4019.5	4035.7
35°	5905.0	5907.4	5755.1	5407.9	5014.7	4653.8	4370.3	4319.2	4437.7	4487.8	4526.4
37.5°	6588.0	6601.7	6405.8	5986.1	5555.4	5175.8	4838.6	4768.7	4887.3	5023.4	5148.2
40°	7325.9	7343.5	7127.4	6610.4	6179.7	5782.6	5417.9	5291.8	5489.2	5749.0	5909.9
42.5°	8030.2	8120.0	7911.6	7379.7	6916.4	6505.5	6136.1	5952.3	6199.7	6591.8	6731.5
45°	9047.9	9112.9	8749.4	8267.6	7831.7	7372.2	6882.6	6689.0	7035.0	7529.6	7558.2
47.5°	9725.9	9677.3	9492.4	9192.7	8916.8	8487.2	7750.4	7538.2	7997.7	8579.6	8418.6
50°	10086.8	10101.8	10076.7	10094.3	10104.2	9834.6	8814.3	8523.5	9071.7	9774.5	9403.7
52.5°	10423.9	10324.0	10406.4	10816.0	11310.5	11210.6	9971.8	9668.5	10222.9	11100.6	10445.1
55°	10416.4	10264.2	10532.5	11255.6	12328.2	12443.1	11271.8	10922.1	11440.4	12522.9	11549.0
57.5°	10048.1	10055.5	10468.8	11415.4	13037.5	13601.7	12780.1	12255.8	12731.5	13964.0	12556.7
60°	9541.1	9609.8	10205.5	11389.2	13605.5	14552.1	14630.7	13693.0	13996.4	15273.7	13390.8
62.5°	8723.3	8795.7	9617.3	11117.0	13519.4	15467.2	16303.9	15323.6	15318.6	16068.0	13635.6
65°	7433.4	7412.2	8274.9	10099.3	12796.4	16144.1	17965.9	16733.4	16315.1	16080.4	13143.6
67.5°	5481.6	5386.7	6127.2	7691.8	10636.2	15386.1	18943.5	17467.7	16654.8	15022.7	11640.1
70°	2844.5	2749.6	3348.9	4491.4	6995.0	12008.5	17861.0	17088.1	15904.3	12592.9	9119.1
72.5°	1216.2	1200.0	1443.4	1970.4	3383.9	6926.4	14005.1	14790.6	13646.7	9382.5	6269.6
75°	817.8	812.8	904.1	1073.8	1522.2	2810.7	8764.5	10498.9	9984.4	5817.6	3526.2
77.5°	641.7	635.6	689.3	771.6	986.5	1108.8	3889.7	5636.5	5216.9	2532.3	1543.4
80°	502.0	496.9	530.7	575.6	709.2	699.3	1279.8	2242.6	1735.6	970.2	750.4
82.5°	395.9	395.9	423.3	424.5	503.2	477.0	668.0	987.6	866.5	565.7	459.6
85°	362.0	362.0	390.9	317.1	328.4	300.9	414.6	585.6	549.5	232.2	199.9
87.5°	182.3	177.3	328.4	281.0	178.6	159.8	202.3	283.4	304.6	128.5	99.9
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°	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8	3187.8
2.5°	3172.9	3171.6	3174.2	3175.4	3185.4	3199.1	3205.3	3214.0	3219.0	3216.7
5°	3135.4	3137.9	3147.9	3155.3	3172.9	3195.4	3207.8	3217.8	3226.5	3222.8
7.5°	3104.3	3110.4	3125.5	3131.8	3141.6	3147.9	3146.7	3150.4	3157.9	3149.2
10°	3086.8	3094.2	3105.4	3096.6	3073.0	3039.2	3008.1	2991.9	2996.8	2990.5
12.5°	3069.1	3079.2	3070.4	3029.3	2963.1	2919.4	2895.6	2898.2	2909.4	2911.9
15°	3059.3	3063.0	3025.5	2948.1	2880.7	2874.4	2887.0	2884.5	2885.6	2885.6
17.5°	3059.3	3049.2	2979.3	2902.0	2873.1	2862.0	2823.3	2774.5	2753.3	2745.8
20°	3075.4	3049.2	2964.3	2913.2	2850.7	2754.6	2652.2	2562.2	2522.4	2511.1
22.5°	3124.1	3079.2	3006.7	2918.1	2740.9	2579.8	2417.3	2310.0	2237.6	2225.1
25°	3222.8	3172.9	3090.4	2851.9	2566.0	2336.2	2151.5	2031.5	1959.2	1949.2
27.5°	3395.1	3362.6	3135.4	2705.9	2333.7	2087.8	1916.8	1824.3	1770.6	1766.8
30°	3654.8	3638.7	3112.9	2489.8	2047.9	1846.7	1764.5	1710.7	1670.7	1669.5
32.5°	4069.4	3938.3	3039.2	2226.4	1786.9	1675.7	1642.0	1609.6	1578.3	1578.3
35°	4602.6	4180.5	2899.4	1944.2	1628.3	1580.7	1538.3	1487.1	1445.9	1443.4
37.5°	5229.5	4330.4	2648.5	1716.9	1553.3	1517.1	1454.7	1378.4	1306.1	1293.6
40°	5862.5	4375.4	2295.1	1577.1	1505.9	1453.5	1377.3	1287.5	1217.5	1213.7
42.5°	6443.2	4289.1	1920.4	1480.9	1458.5	1388.5	1308.7	1228.7	1173.7	1172.5
45°	6930.2	4065.6	1605.8	1389.8	1408.5	1329.9	1258.6	1193.8	1151.3	1142.6
47.5°	7388.4	3749.7	1384.7	1293.6	1358.5	1297.3	1237.4	1176.2	1135.1	1128.8
50°	7920.4	3408.9	1229.9	1200.0	1314.8	1286.2	1254.9	1191.2	1122.5	1115.1
52.5°	8564.6	3114.2	1108.8	1117.5	1281.2	1301.1	1299.8	1233.7	1113.8	1103.8
55°	9283.9	2787.0	1017.7	1050.1	1267.4	1328.7	1311.0	1273.6	1121.4	1106.4
57.5°	9991.8	2404.9	954.0	998.9	1247.4	1326.1	1257.4	1203.6	1138.8	1117.5
60°	10522.6	1891.7	905.3	954.0	1203.6	1284.8	1198.7	1127.6	1135.1	1118.7
62.5°	10557.5	1462.3	846.7	915.3	1137.6	1243.7	1160.0	1093.9	1151.3	1136.3
65°	9937.0	1105.0	790.4	869.1	1066.4	1217.5	1122.5	1075.1	1185.0	1168.8
67.5°	8366.2	889.1	743.0	821.6	995.2	1162.4	1088.8	1057.7	1215.0	1186.2
70°	6039.8	757.9	696.7	764.2	931.5	1100.1	1058.9	1026.5	1133.8	1088.8
72.5°	3718.5	656.8	644.4	688.0	882.9	1035.1	1013.9	967.7	1021.5	985.3
75°	1856.7	569.3	585.6	613.2	814.1	961.5	939.0	892.7	900.3	892.7
77.5°	889.1	487.1	517.0	538.2	725.6	877.9	854.1	806.7	798.0	799.1
80°	563.1	407.0	435.8	450.8	648.0	780.4	756.7	709.2	809.2	750.4
82.5°	352.1	330.8	338.4	365.9	564.3	679.3	648.0	605.5	729.2	576.9
85°	194.8	231.0	240.9	264.7	434.5	568.2	536.9	483.3	433.3	425.7
87.5°	116.2	137.4	141.2	158.6	292.2	410.9	363.4	344.6	285.9	284.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)