

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: P194802

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194802
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-04-LED-E1-T3-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26346 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

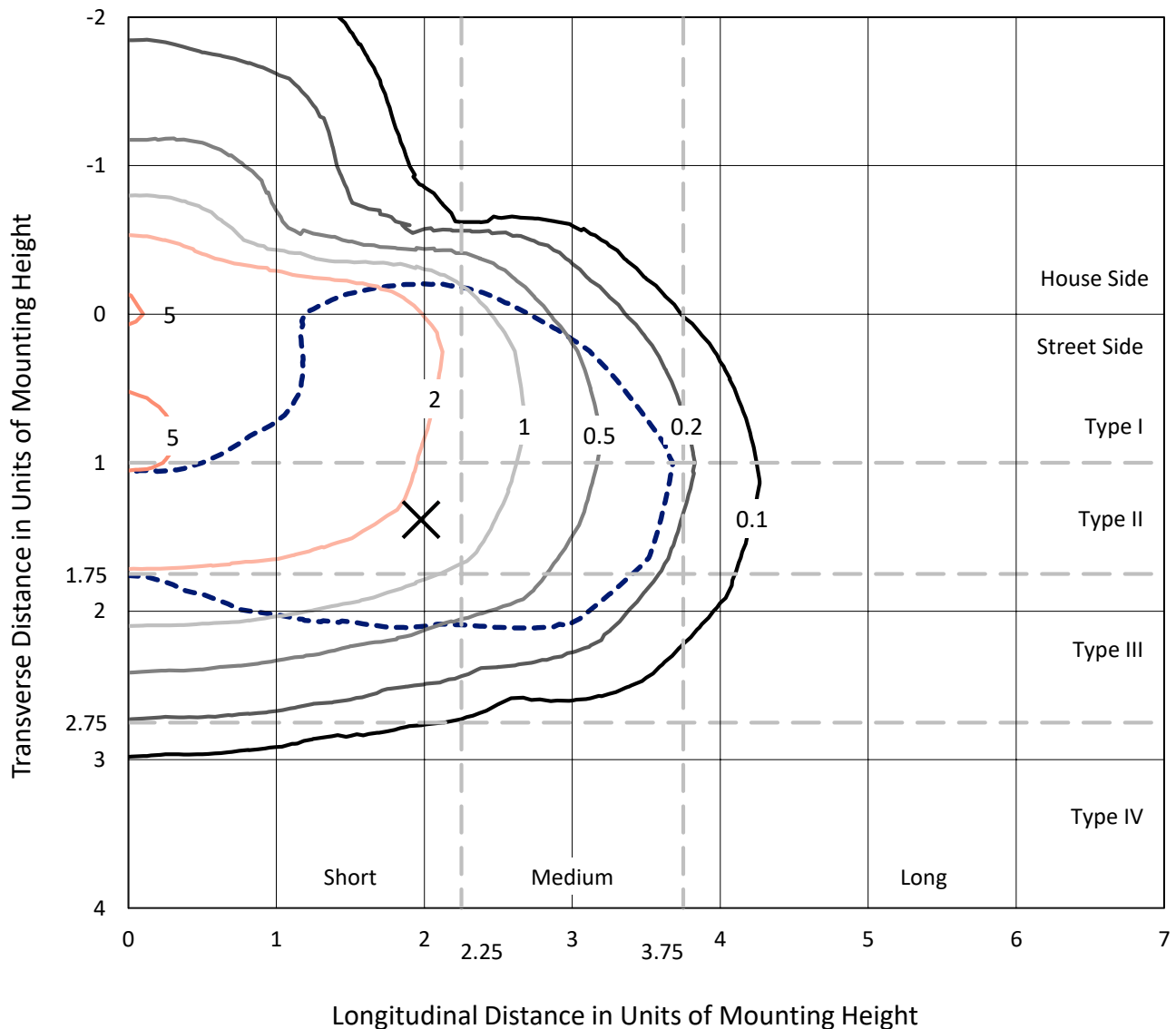


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

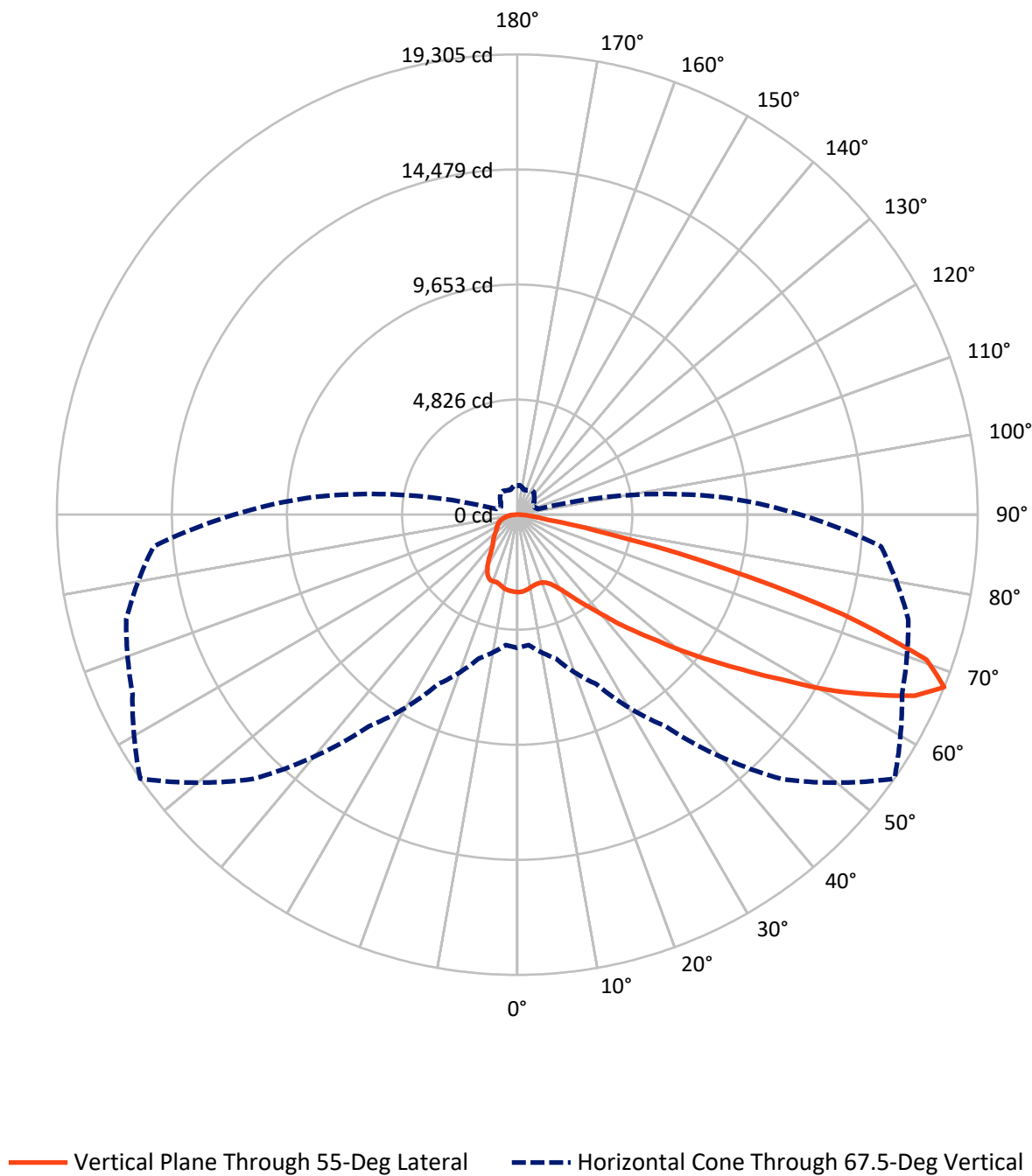


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5691.3	0.0	5691.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20654.7	0.0	20654.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	26346.0	0.0	26346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	1.2
10°-20°	858.8	3.3
20°-30°	1438.6	5.5
30°-40°	2365.7	9.0
40°-50°	3982.2	15.1
50°-60°	6267.7	23.8
60°-70°	7479.8	28.4
70°-80°	3212.0	12.2
80°-90°	437.9	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°	26346.0	100.0
0°-180°	26346.0	100.0

Coefficient of Utilization



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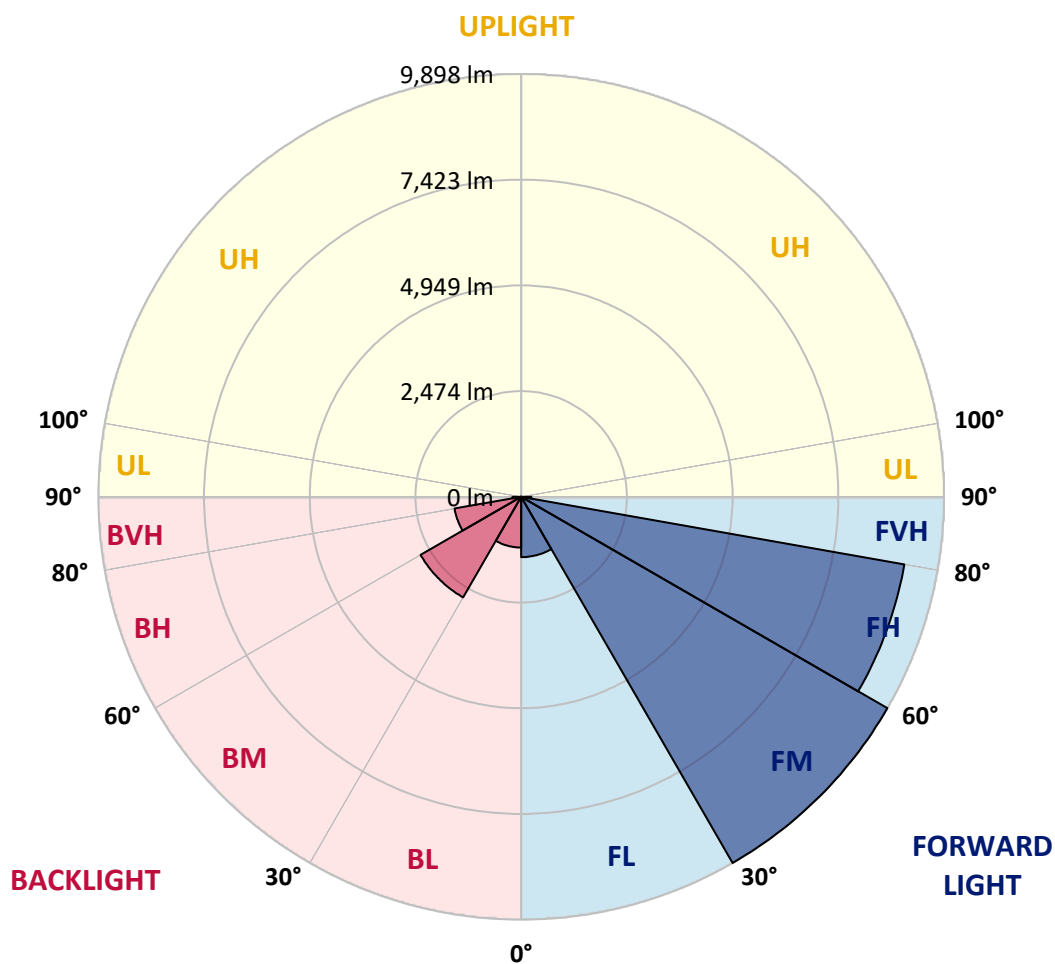
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1412.2	5.4			
FM	(30°-60°)	9897.5	37.6			
FH	(60°-80°)	9107.9	34.6			G4/12000
FVH	(80°-90°)	237.1	0.9			G3/500
BL	(0°-30°)	1188.5	4.5	B3/2500		
BM	(30°-60°)	2718.1	10.3	B3/5000		
BH	(60°-80°)	1583.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	200.9	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°	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7
2.5°	3220.8	3222.0	3224.6	3234.8	3243.7	3241.1	3242.4	3237.3	3236.0	3228.4	3236.0
5°	3180.0	3183.9	3185.1	3201.7	3211.8	3214.4	3210.6	3204.2	3196.6	3188.9	3192.8
7.5°	3087.1	3097.3	3098.6	3121.5	3138.0	3159.7	3160.9	3162.2	3158.4	3153.3	3160.9
10°	3028.6	3031.1	3029.9	3046.4	3059.1	3083.3	3097.3	3121.5	3131.7	3134.2	3139.3
12.5°	3024.8	3022.2	3018.4	3018.4	3014.6	3024.8	3050.2	3084.6	3108.8	3116.4	3122.8
15°	3065.5	3064.2	3051.5	3032.4	3008.2	3000.6	3022.2	3060.4	3092.2	3108.8	3115.1
17.5°	3157.1	3149.5	3129.1	3085.9	3033.7	3013.3	3015.9	3047.7	3084.6	3106.2	3112.6
20°	3325.1	3325.1	3281.8	3200.4	3107.5	3059.1	3036.2	3055.3	3091.0	3120.2	3129.1
22.5°	3615.2	3617.8	3545.2	3411.6	3255.1	3152.0	3094.8	3091.0	3133.0	3166.0	3176.2
25°	4026.3	4016.1	3914.3	3723.4	3485.4	3314.9	3215.7	3192.8	3228.4	3265.3	3278.0
27.5°	4504.7	4467.8	4346.9	4116.6	3808.7	3559.2	3406.5	3369.6	3404.0	3446.0	3458.7
30°	4978.1	4939.9	4796.1	4544.2	4201.9	3886.3	3667.4	3607.6	3656.0	3715.8	3723.4
32.5°	5451.5	5451.5	5291.1	4997.2	4624.3	4276.9	4014.8	3943.5	4023.7	4096.2	4112.8
35°	6017.8	6020.3	5865.1	5511.3	5110.4	4742.7	4453.8	4401.7	4522.5	4573.4	4612.9
37.5°	6713.8	6727.8	6528.0	6100.5	5661.5	5274.6	4931.0	4859.8	4980.7	5119.4	5246.6
40°	7465.9	7483.7	7263.6	6736.7	6297.7	5893.1	5521.5	5392.9	5594.0	5858.7	6022.8
42.5°	8183.6	8275.2	8062.7	7520.6	7048.5	6629.8	6253.2	6066.1	6318.1	6717.6	6860.2
45°	9220.7	9286.9	8916.6	8425.4	7981.3	7513.0	7014.1	6816.9	7169.4	7673.3	7702.6
47.5°	9911.7	9862.0	9673.7	9368.3	9087.1	8649.3	7898.5	7682.2	8150.5	8743.5	8579.3
50°	10279.4	10294.7	10269.3	10287.1	10297.3	10022.4	8982.7	8686.2	9244.9	9961.3	9583.4
52.5°	10623.0	10521.2	10605.2	11022.6	11526.5	11424.7	10162.4	9853.1	10418.1	11312.7	10644.6
55°	10615.4	10460.1	10733.7	11470.5	12563.6	12680.7	11487.1	11130.8	11658.8	12762.1	11769.6
57.5°	10240.0	10247.6	10668.8	11633.4	13286.4	13861.6	13024.3	12489.8	12974.6	14230.6	12796.5
60°	9723.3	9793.3	10400.3	11606.7	13865.4	14830.0	14910.1	13954.5	14263.7	15565.5	13646.5
62.5°	8889.8	8963.6	9801.0	11329.3	13777.6	15762.7	16615.3	15616.4	15611.3	16374.8	13895.9
65°	7575.3	7553.7	8433.0	10292.2	13040.8	16452.4	18309.1	17053.1	16626.8	16387.5	13394.6
67.5°	5586.4	5489.7	6244.3	7838.7	10839.3	15680.0	19305.4	17801.3	16972.9	15309.7	11862.5
70°	2898.8	2802.1	3412.9	4577.3	7128.7	12237.8	18202.2	17414.5	16208.1	12833.4	9293.2
72.5°	1239.4	1222.9	1471.0	2008.0	3448.5	7058.7	14272.6	15073.0	13907.4	9561.7	6389.3
75°	833.5	828.4	921.3	1094.4	1551.2	2864.4	8931.8	10699.4	10175.1	5928.7	3593.6
77.5°	654.1	647.7	702.4	786.4	1005.3	1130.0	3963.9	5744.2	5316.6	2580.7	1572.8
80°	511.6	506.5	540.8	586.6	722.8	712.6	1304.3	2285.5	1768.8	988.7	764.8
82.5°	403.4	403.4	431.4	432.7	512.8	486.1	680.8	1006.6	883.1	576.5	468.3
85°	369.0	369.0	398.3	323.2	334.7	306.7	422.5	596.8	559.9	236.7	203.6
87.5°	185.8	180.7	334.7	286.3	182.0	162.9	206.1	288.9	310.5	131.1	101.8
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°	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7	3248.7
2.5°	3233.5	3232.2	3234.8	3236.0	3246.2	3260.2	3266.6	3275.5	3280.6	3278.0
5°	3195.3	3197.8	3208.0	3215.7	3233.5	3256.4	3269.1	3279.3	3288.2	3284.4
7.5°	3163.5	3169.9	3185.1	3191.5	3201.7	3208.0	3206.8	3210.6	3218.2	3209.3
10°	3145.7	3153.3	3164.8	3155.9	3131.7	3097.3	3065.5	3049.0	3054.1	3047.7
12.5°	3127.9	3138.0	3129.1	3087.1	3019.7	2975.2	2951.0	2953.5	2965.0	2967.5
15°	3117.7	3121.5	3083.3	3004.4	2935.7	2929.3	2942.1	2939.5	2940.8	2940.8
17.5°	3117.7	3107.5	3036.2	2957.3	2928.1	2916.6	2877.2	2827.5	2805.9	2798.3
20°	3134.2	3107.5	3021.0	2968.8	2905.2	2807.2	2702.8	2611.2	2570.5	2559.0
22.5°	3183.9	3138.0	3064.2	2973.9	2793.2	2629.0	2463.6	2354.2	2280.4	2267.6
25°	3284.4	3233.5	3149.5	2906.4	2615.0	2380.9	2192.6	2070.4	1996.6	1986.4
27.5°	3460.0	3426.9	3195.3	2757.6	2378.3	2127.7	1953.3	1859.2	1804.4	1800.6
30°	3724.7	3708.1	3172.4	2537.4	2086.9	1882.1	1798.1	1743.4	1702.6	1701.4
32.5°	4147.2	4013.5	3097.3	2268.9	1821.0	1707.7	1673.4	1640.3	1608.5	1608.5
35°	4690.5	4260.4	2954.8	1981.3	1659.4	1611.0	1567.7	1515.6	1473.6	1471.0
37.5°	5329.3	4413.1	2699.0	1749.7	1583.0	1546.1	1482.5	1404.9	1331.1	1318.3
40°	5974.5	4458.9	2338.9	1607.2	1534.7	1481.2	1403.6	1312.0	1240.7	1236.9
42.5°	6566.2	4371.1	1957.1	1509.2	1486.3	1415.0	1333.6	1252.2	1196.2	1194.9
45°	7062.5	4143.3	1636.5	1416.3	1435.4	1355.2	1282.7	1216.5	1173.3	1164.4
47.5°	7529.5	3821.4	1411.2	1318.3	1384.5	1322.2	1261.1	1198.7	1156.7	1150.4
50°	8071.6	3474.0	1253.4	1222.9	1340.0	1310.7	1278.9	1214.0	1144.0	1136.4
52.5°	8728.2	3173.7	1130.0	1138.9	1305.6	1326.0	1324.7	1257.3	1135.1	1124.9
55°	9461.2	2840.3	1037.1	1070.2	1291.6	1354.0	1336.1	1298.0	1142.7	1127.5
57.5°	10182.7	2450.9	972.2	1018.0	1271.2	1351.4	1281.4	1226.7	1160.5	1138.9
60°	10723.5	1927.9	922.6	972.2	1226.7	1309.4	1221.6	1149.1	1156.7	1140.2
62.5°	10759.2	1490.1	862.8	932.8	1159.3	1267.4	1182.2	1114.7	1173.3	1158.0
65°	10126.7	1126.2	805.5	885.7	1086.7	1240.7	1144.0	1095.6	1207.6	1191.1
67.5°	8525.9	906.0	757.2	837.3	1014.2	1184.7	1109.6	1077.8	1238.2	1208.9
70°	6155.2	772.4	710.1	778.8	949.3	1121.1	1079.1	1046.0	1155.5	1109.6
72.5°	3789.6	669.3	656.6	701.2	899.7	1054.9	1033.3	986.2	1040.9	1004.0
75°	1892.2	580.3	596.8	624.8	829.7	979.8	956.9	909.9	917.5	909.9
77.5°	906.0	496.3	526.8	548.5	739.3	894.6	870.4	822.0	813.1	814.4
80°	573.9	414.8	444.1	459.4	660.4	795.3	771.1	722.8	824.6	764.8
82.5°	358.9	337.2	344.9	372.8	575.2	692.3	660.4	617.2	743.2	587.9
85°	198.5	235.4	245.6	269.8	442.8	579.0	547.2	492.5	441.6	433.9
87.5°	118.3	140.0	143.8	161.6	297.8	418.7	370.3	351.2	291.4	290.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)