

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: P299252

Luminaire Tested: **GLNA-AF-07-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299252
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: GLNA-AF-07-LED-E1-T3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26741.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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

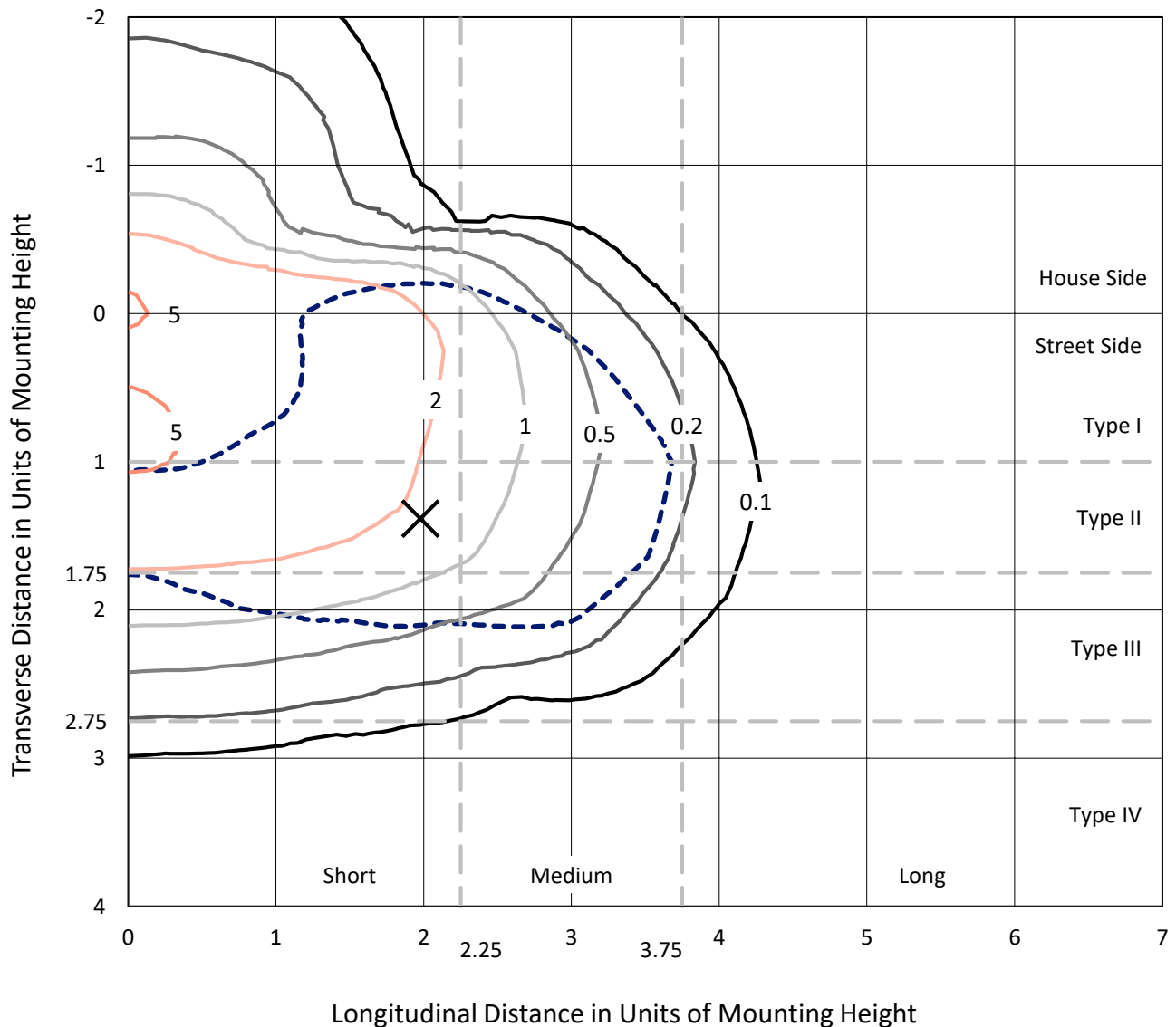


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

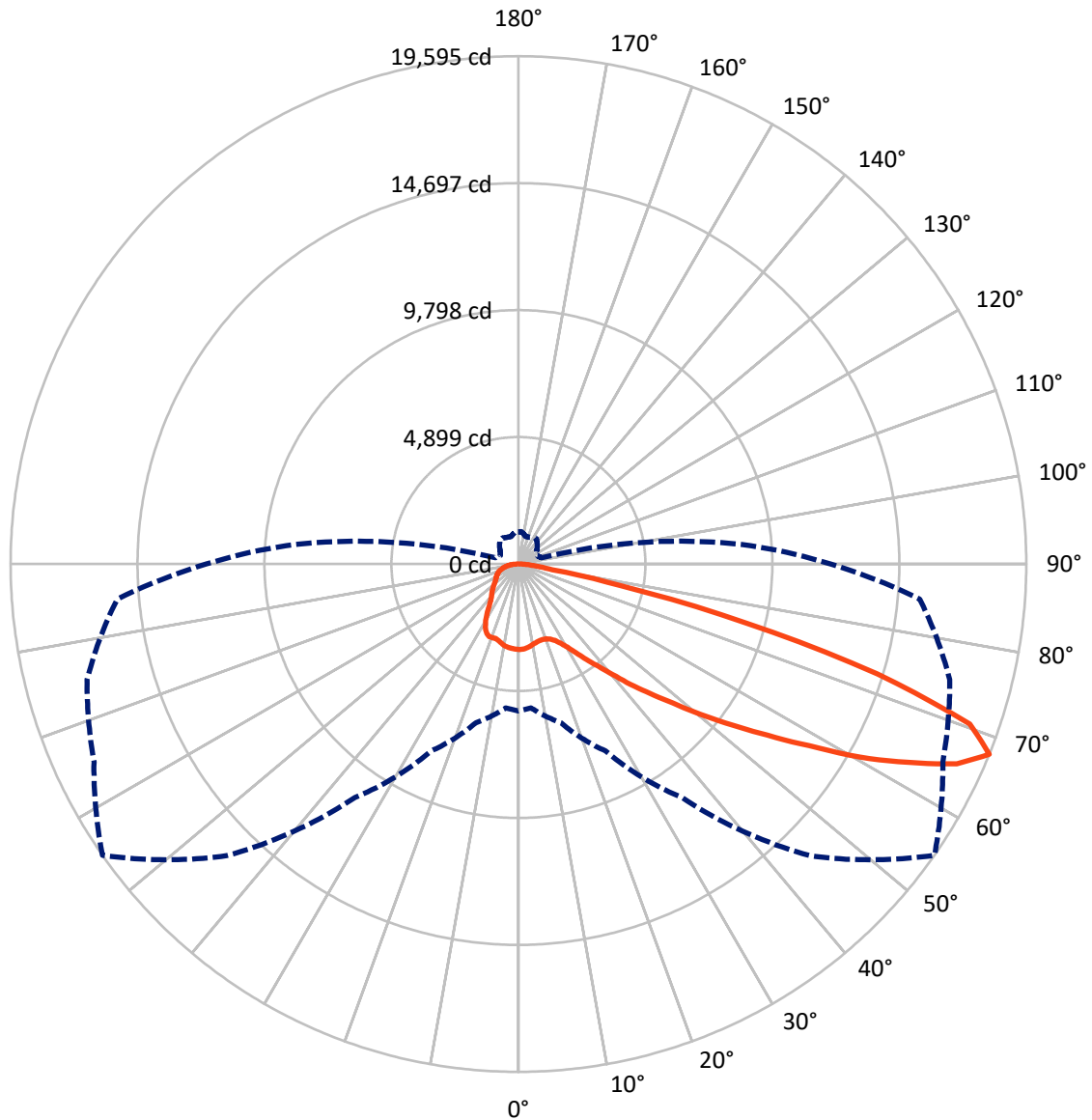


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— 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	5776.8	0.0	5776.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20964.9	0.0	20964.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	26741.7	0.0	26741.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	1.2
10°-20°	871.7	3.3
20°-30°	1460.2	5.5
30°-40°	2401.2	9.0
40°-50°	4042.0	15.1
50°-60°	6361.8	23.8
60°-70°	7592.2	28.4
70°-80°	3260.2	12.2
80°-90°	444.5	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°	26741.7	100.0
0°-180°	26741.7	100.0



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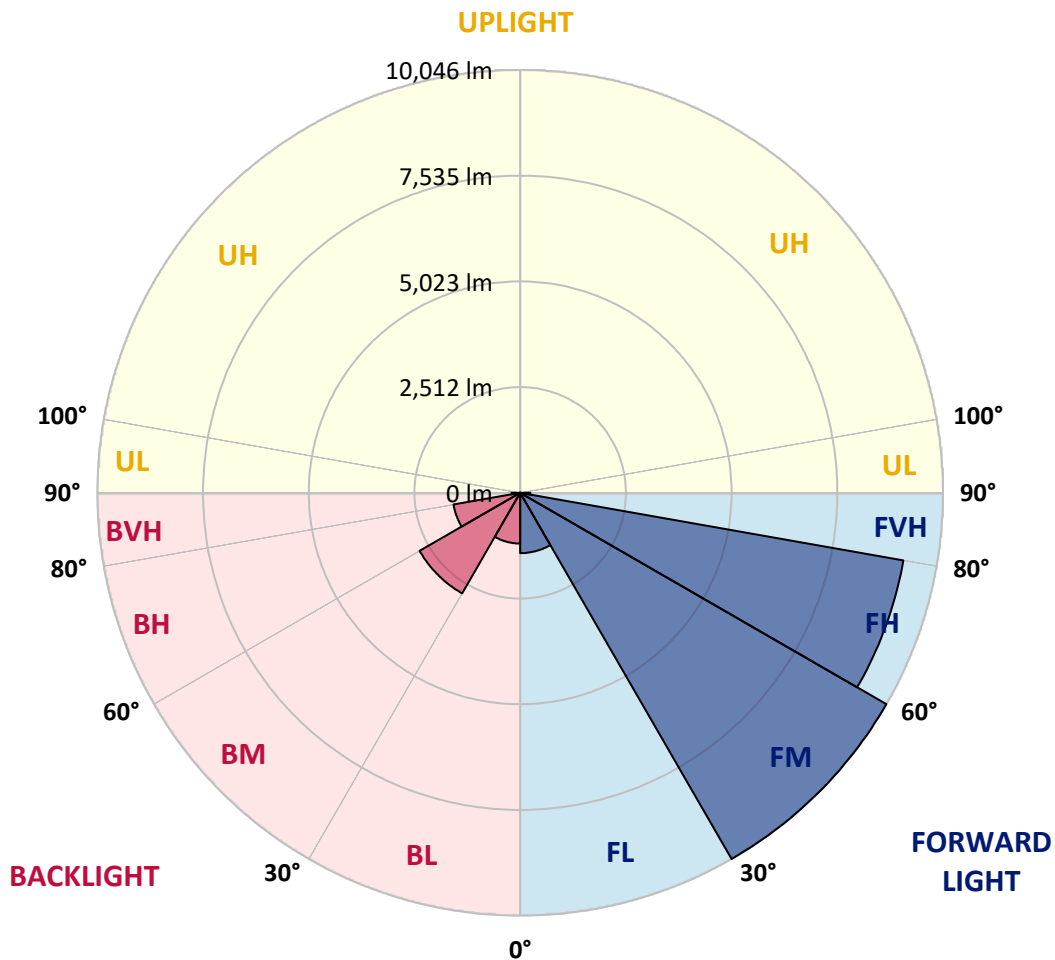
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.4	5.4			
FM	(30°-60°)	10046.1	37.6			
FH	(60°-80°)	9244.7	34.6			G4/12000
FVH	(80°-90°)	240.6	0.9			G3/500
BL	(0°-30°)	1206.3	4.5	B3/2500		
BM	(30°-60°)	2758.9	10.3	B3/5000		
BH	(60°-80°)	1607.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	203.9	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°	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5
2.5°	3269.1	3270.4	3273.0	3283.3	3292.4	3289.8	3291.1	3285.9	3284.6	3276.9	3284.6
5°	3227.8	3231.7	3233.0	3249.7	3260.1	3262.7	3258.8	3252.3	3244.6	3236.8	3240.7
7.5°	3133.5	3143.8	3145.1	3168.4	3185.2	3207.1	3208.4	3209.7	3205.8	3200.7	3208.4
10°	3074.1	3076.7	3075.4	3092.2	3105.1	3129.6	3143.8	3168.4	3178.7	3181.3	3186.5
12.5°	3070.2	3067.6	3063.8	3063.8	3059.9	3070.2	3096.0	3130.9	3155.5	3163.2	3169.7
15°	3111.5	3110.3	3097.3	3078.0	3053.4	3045.7	3067.6	3106.4	3138.7	3155.5	3161.9
17.5°	3204.5	3196.8	3176.1	3132.2	3079.3	3058.6	3061.2	3093.5	3130.9	3152.9	3159.3
20°	3375.0	3375.0	3331.1	3248.5	3154.2	3105.1	3081.8	3101.2	3137.4	3167.1	3176.1
22.5°	3669.5	3672.1	3598.5	3462.9	3304.0	3199.4	3141.3	3137.4	3180.0	3213.6	3223.9
25°	4086.7	4076.4	3973.1	3779.3	3537.8	3364.7	3264.0	3240.7	3276.9	3314.3	3327.2
27.5°	4572.4	4534.9	4412.2	4178.4	3865.9	3612.7	3457.7	3420.2	3455.1	3497.7	3510.7
30°	5052.9	5014.1	4868.2	4612.4	4265.0	3944.6	3722.5	3661.8	3710.9	3771.6	3779.3
32.5°	5533.4	5533.4	5370.6	5072.2	4693.8	4341.2	4075.1	4002.8	4084.1	4157.8	4174.6
35°	6108.1	6110.7	5953.1	5594.1	5187.2	4813.9	4520.7	4467.8	4590.5	4642.1	4682.2
37.5°	6814.7	6828.9	6626.1	6192.1	5746.5	5353.8	5005.1	4932.7	5055.5	5196.2	5325.4
40°	7578.0	7596.1	7372.6	6837.9	6392.3	5981.6	5604.4	5473.9	5678.0	5946.7	6113.3
42.5°	8306.5	8399.5	8183.8	7633.6	7154.4	6729.4	6347.1	6157.2	6413.0	6818.5	6963.2
45°	9359.2	9426.3	9050.5	8551.9	8101.1	7625.8	7119.5	6919.3	7277.1	7788.5	7818.3
47.5°	10060.5	10010.2	9819.0	9509.0	9223.6	8779.2	8017.2	7797.6	8272.9	8874.8	8708.2
50°	10433.8	10449.3	10423.5	10441.6	10451.9	10172.9	9117.6	8816.7	9383.7	10110.9	9727.3
52.5°	10782.6	10679.2	10764.5	11188.1	11699.6	11596.3	10315.0	10001.1	10574.6	11482.6	10804.5
55°	10774.8	10617.2	10894.9	11642.8	12752.3	12871.1	11659.6	11297.9	11833.9	12953.8	11946.3
57.5°	10393.8	10401.5	10829.1	11808.1	13485.9	14069.8	13219.9	12677.4	13169.5	14444.3	12988.7
60°	9869.4	9940.4	10556.5	11781.0	14073.6	15052.7	15134.1	14164.1	14477.9	15799.3	13851.5
62.5°	9023.4	9098.3	9948.2	11499.4	13984.5	15999.5	16864.9	15850.9	15845.8	16620.7	14104.6
65°	7689.1	7667.1	8559.7	10446.7	13236.7	16699.5	18584.0	17309.2	16876.5	16633.7	13595.7
67.5°	5670.3	5572.1	6338.0	7956.5	11002.1	15915.5	19595.4	18068.7	17227.8	15539.6	12040.6
70°	2942.3	2844.2	3464.2	4646.0	7235.7	12421.6	18475.5	17676.0	16451.5	13026.1	9432.8
72.5°	1258.1	1241.3	1493.1	2038.2	3500.3	7164.7	14487.0	15299.4	14116.3	9705.3	6485.3
75°	846.0	840.9	935.1	1110.8	1574.5	2907.5	9066.0	10860.1	10327.9	6017.7	3647.6
77.5°	663.9	657.4	713.0	798.2	1020.4	1147.0	4023.4	5830.4	5396.4	2619.4	1596.5
80°	519.2	514.1	548.9	595.4	733.6	723.3	1323.9	2319.8	1795.4	1003.6	776.3
82.5°	409.4	409.4	437.9	439.2	520.5	493.4	691.0	1021.7	896.4	585.1	475.3
85°	374.6	374.6	404.3	328.1	339.7	311.3	428.8	605.8	568.3	240.2	206.7
87.5°	188.6	183.4	339.7	290.6	184.7	165.3	209.2	293.2	315.2	133.0	103.3
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°	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5	3297.5
2.5°	3282.0	3280.7	3283.3	3284.6	3295.0	3309.2	3315.6	3324.7	3329.8	3327.2
5°	3243.3	3245.9	3256.2	3264.0	3282.0	3305.3	3318.2	3328.5	3337.6	3333.7
7.5°	3211.0	3217.5	3233.0	3239.4	3249.7	3256.2	3254.9	3258.8	3266.5	3257.5
10°	3192.9	3200.7	3212.3	3203.3	3178.7	3143.8	3111.5	3094.8	3099.9	3093.5
12.5°	3174.8	3185.2	3176.1	3133.5	3065.0	3019.8	2995.3	2997.9	3009.5	3012.1
15°	3164.5	3168.4	3129.6	3049.5	2979.8	2973.3	2986.3	2983.7	2985.0	2985.0
17.5°	3164.5	3154.2	3081.8	3001.8	2972.0	2960.4	2920.4	2870.0	2848.1	2840.3
20°	3181.3	3154.2	3066.3	3013.4	2948.8	2849.3	2743.4	2650.4	2609.1	2597.5
22.5°	3231.7	3185.2	3110.3	3018.5	2835.1	2668.5	2500.6	2389.5	2314.6	2301.7
25°	3333.7	3282.0	3196.8	2950.1	2654.3	2416.6	2225.5	2101.5	2026.6	2016.2
27.5°	3512.0	3478.4	3243.3	2799.0	2414.1	2159.6	1982.7	1887.1	1831.5	1827.7
30°	3780.6	3763.8	3220.0	2575.5	2118.3	1910.3	1825.1	1769.5	1728.2	1726.9
32.5°	4209.4	4073.8	3143.8	2303.0	1848.3	1733.4	1698.5	1664.9	1632.6	1632.6
35°	4761.0	4324.4	2999.2	2011.1	1684.3	1635.2	1591.3	1538.3	1495.7	1493.1
37.5°	5409.4	4479.4	2739.6	1776.0	1606.8	1569.3	1504.8	1426.0	1351.0	1338.1
40°	6064.2	4525.9	2374.0	1631.3	1557.7	1503.5	1424.7	1331.7	1259.3	1255.5
42.5°	6664.8	4436.8	1986.5	1531.9	1508.6	1436.3	1353.6	1271.0	1214.1	1212.8
45°	7168.6	4205.6	1661.0	1437.6	1457.0	1375.6	1302.0	1234.8	1190.9	1181.8
47.5°	7642.6	3878.8	1432.4	1338.1	1405.3	1342.0	1280.0	1216.7	1174.1	1167.6
50°	8192.8	3526.2	1272.3	1241.3	1360.1	1330.4	1298.1	1232.2	1161.2	1153.4
52.5°	8859.3	3221.3	1147.0	1156.0	1325.2	1345.9	1344.6	1276.1	1152.1	1141.8
55°	9603.3	2882.9	1052.7	1086.3	1311.0	1374.3	1356.2	1317.5	1159.9	1144.4
57.5°	10335.7	2487.7	986.8	1033.3	1290.3	1371.7	1300.7	1245.1	1178.0	1156.0
60°	10884.6	1956.8	936.4	986.8	1245.1	1329.1	1240.0	1166.3	1174.1	1157.3
62.5°	10920.8	1512.5	875.7	946.8	1176.7	1286.5	1199.9	1131.5	1190.9	1175.4
65°	10278.8	1143.1	817.6	899.0	1103.1	1259.3	1161.2	1112.1	1225.8	1209.0
67.5°	8653.9	919.6	768.5	849.9	1029.4	1202.5	1126.3	1094.0	1256.8	1227.1
70°	6247.6	784.0	720.7	790.5	963.6	1137.9	1095.3	1061.7	1172.8	1126.3
72.5°	3846.5	679.4	666.5	711.7	913.2	1070.8	1048.8	1001.0	1056.6	1019.1
75°	1920.7	589.0	605.8	634.2	842.1	994.6	971.3	923.5	931.3	923.5
77.5°	919.6	503.7	534.7	556.7	750.4	908.0	883.5	834.4	825.4	826.6
80°	582.5	421.1	450.8	466.3	670.4	807.3	782.7	733.6	837.0	776.3
82.5°	364.2	342.3	350.0	378.4	583.8	702.6	670.4	626.4	754.3	596.7
85°	201.5	239.0	249.3	273.8	449.5	587.7	555.4	499.9	448.2	440.4
87.5°	120.1	142.1	146.0	164.0	302.2	424.9	375.9	356.5	295.8	294.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)