

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: P193985

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193985
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-07-LED-E1-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27764 lumens
Efficiency: N/A
Efficacy: 94.1 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

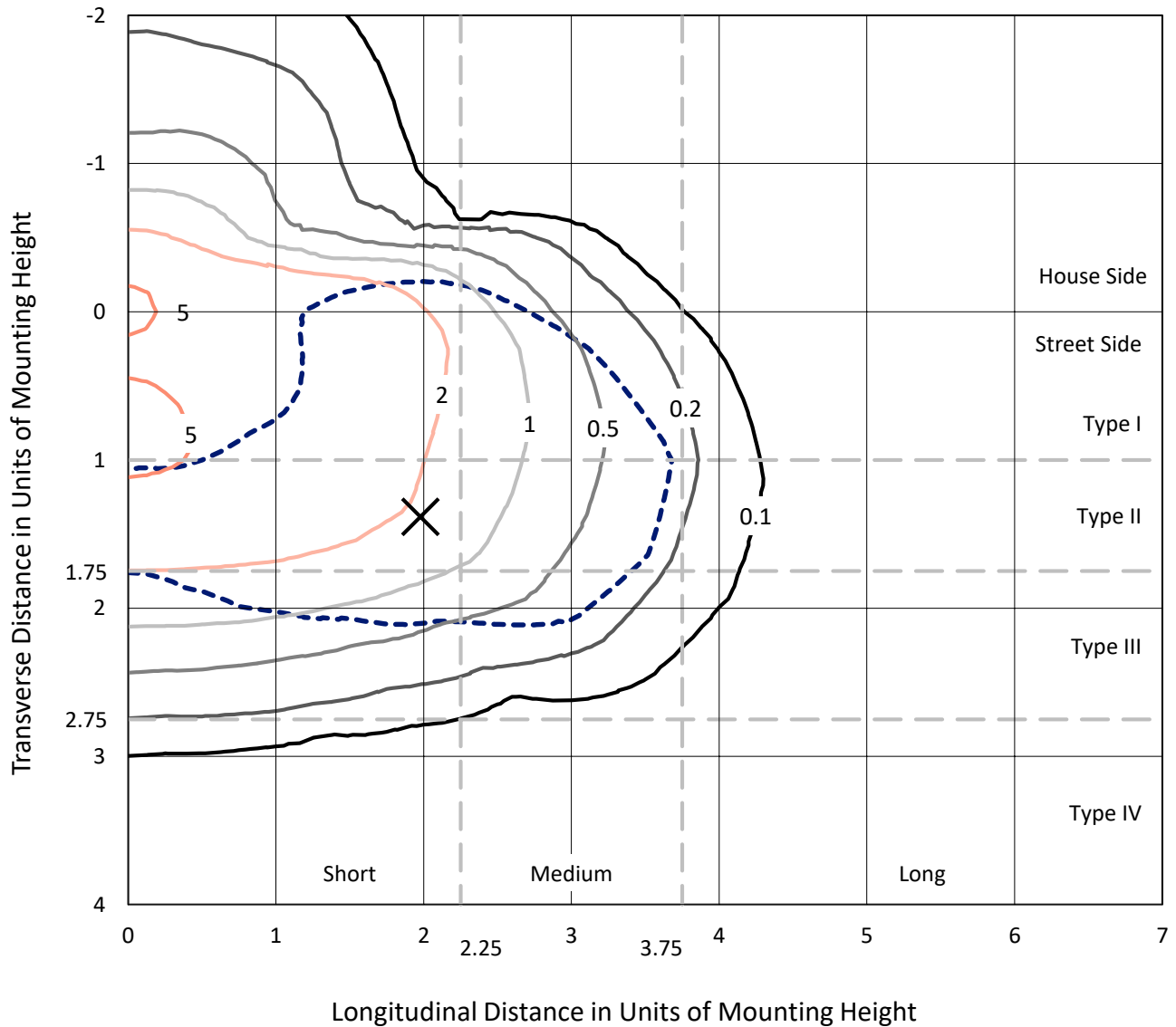
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

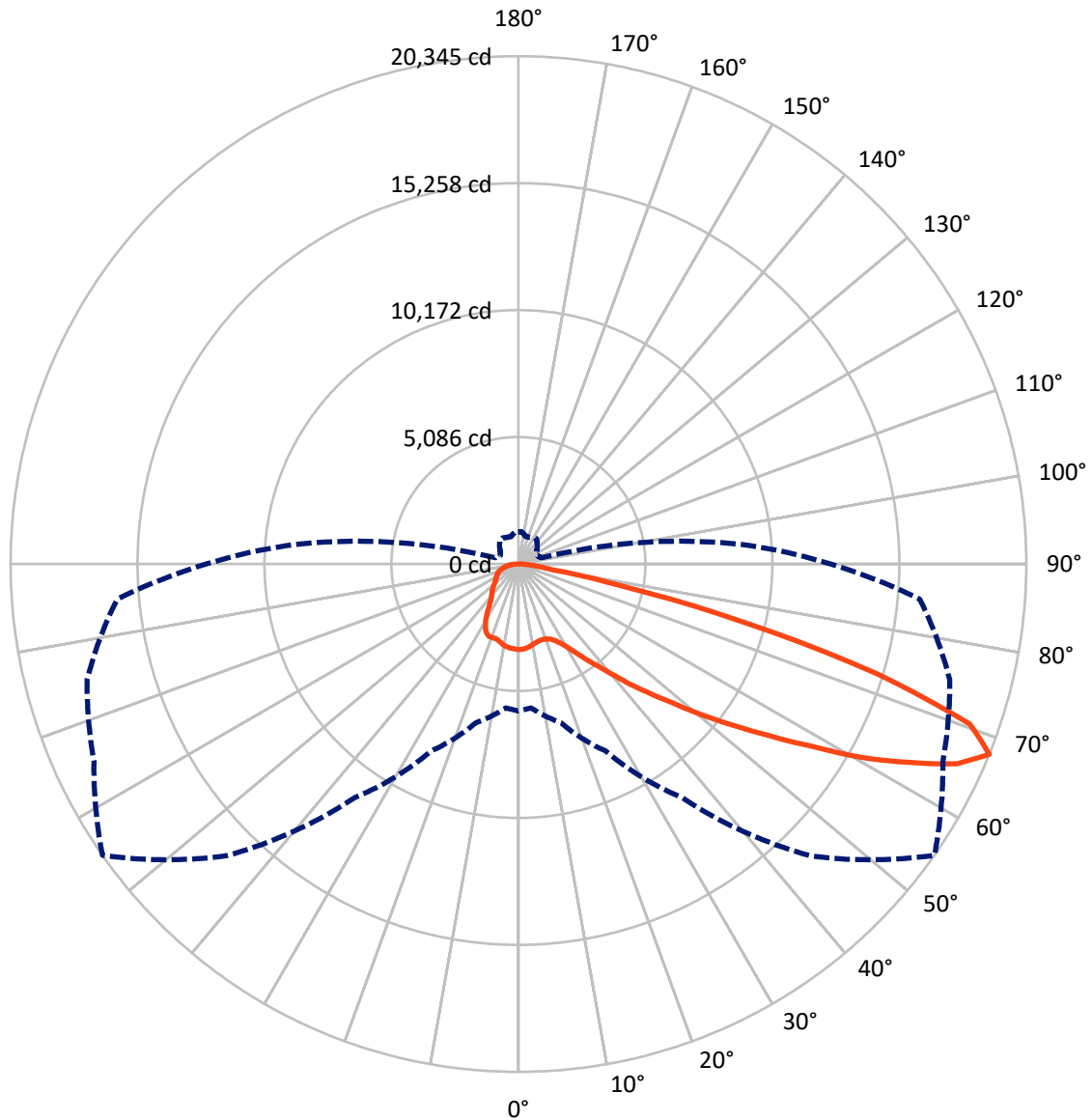
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5997.6	0.0	5997.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21766.4	0.0	21766.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	27764.0	0.0	27764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	1.2
10°-20°	905.0	3.3
20°-30°	1516.0	5.5
30°-40°	2493.0	9.0
40°-50°	4196.5	15.1
50°-60°	6605.0	23.8
60°-70°	7882.4	28.4
70°-80°	3384.9	12.2
80°-90°	461.5	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°	27764.0	100.0
0°-180°	27764.0	100.0



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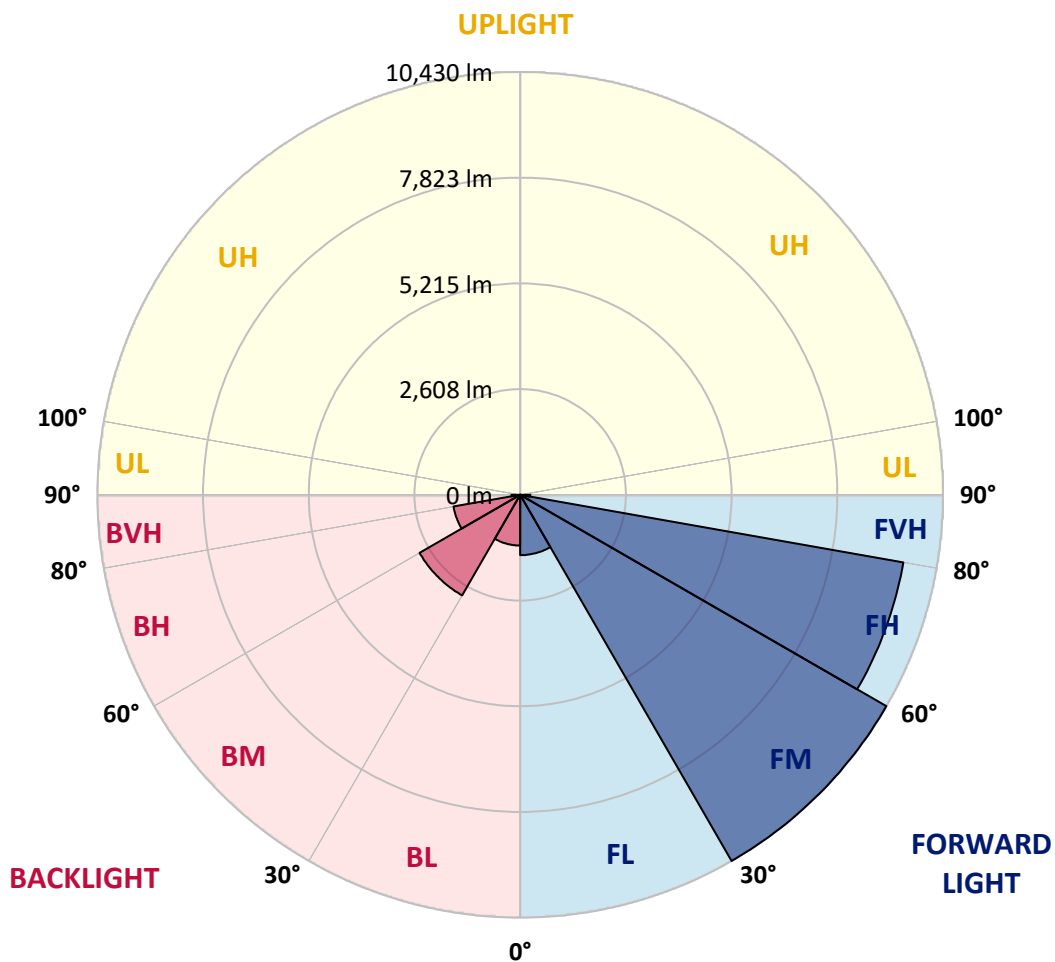
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1488.2	5.4			
FM	(30°-60°)	10430.2	37.6			
FH	(60°-80°)	9598.1	34.6			G4/12000
FVH	(80°-90°)	249.8	0.9			G3/500
BL	(0°-30°)	1252.4	4.5	B3/2500		
BM	(30°-60°)	2864.4	10.3	B3/5000		
BH	(60°-80°)	1669.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	211.7	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°	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6
2.5°	3394.1	3395.4	3398.1	3408.9	3418.2	3415.6	3416.9	3411.5	3410.2	3402.1	3410.2
5°	3351.2	3355.2	3356.6	3374.0	3384.7	3387.4	3383.4	3376.7	3368.6	3360.6	3364.6
7.5°	3253.3	3264.0	3265.4	3289.5	3306.9	3329.7	3331.1	3332.4	3328.4	3323.0	3331.1
10°	3191.6	3194.3	3193.0	3210.4	3223.8	3249.3	3264.0	3289.5	3300.2	3302.9	3308.3
12.5°	3187.6	3184.9	3180.9	3180.9	3176.9	3187.6	3214.4	3250.6	3276.1	3284.1	3290.8
15°	3230.5	3229.2	3215.7	3195.6	3170.2	3162.1	3184.9	3225.1	3258.7	3276.1	3282.8
17.5°	3327.1	3319.0	3297.5	3252.0	3197.0	3175.5	3178.2	3211.7	3250.6	3273.4	3280.1
20°	3504.1	3504.1	3458.5	3372.6	3274.8	3223.8	3199.7	3219.8	3257.3	3288.2	3297.5
22.5°	3809.8	3812.5	3736.1	3595.3	3430.3	3321.7	3261.3	3257.3	3301.6	3336.4	3347.2
25°	4243.0	4232.2	4125.0	3923.8	3673.0	3493.3	3388.7	3364.6	3402.1	3441.0	3454.4
27.5°	4747.2	4708.3	4580.9	4338.2	4013.6	3750.8	3589.9	3551.0	3587.2	3631.5	3644.9
30°	5246.0	5205.8	5054.3	4788.8	4428.0	4095.5	3864.8	3801.8	3852.7	3915.8	3923.8
32.5°	5744.9	5744.9	5575.9	5266.2	4873.2	4507.1	4230.9	4155.8	4240.3	4316.7	4334.2
35°	6341.6	6344.3	6180.7	5807.9	5385.5	4998.0	4693.5	4638.6	4766.0	4819.6	4861.2
37.5°	7075.2	7089.9	6879.4	6428.8	5966.2	5558.5	5196.4	5121.3	5248.7	5394.9	5529.0
40°	7867.7	7886.5	7654.5	7099.3	6636.7	6210.2	5818.7	5683.2	5895.1	6174.0	6347.0
42.5°	8624.1	8720.6	8496.7	7925.4	7427.9	6986.7	6589.7	6392.6	6658.1	7079.2	7229.4
45°	9717.0	9786.7	9396.5	8878.8	8410.8	7917.3	7391.7	7183.8	7555.3	8086.3	8117.1
47.5°	10445.1	10392.8	10194.4	9872.5	9576.2	9114.9	8323.7	8095.7	8589.2	9214.1	9041.1
50°	10832.7	10848.8	10822.0	10840.7	10851.5	10561.8	9466.2	9153.8	9742.5	10497.4	10099.2
52.5°	11194.8	11087.5	11176.0	11615.8	12146.9	12039.6	10709.3	10383.5	10978.9	11921.6	11217.6
55°	11186.7	11023.1	11311.4	12087.9	13239.8	13363.2	12105.3	11729.8	12286.4	13449.0	12403.0
57.5°	10791.1	10799.2	11243.0	12259.5	14001.5	14607.6	13725.3	13162.0	13673.0	14996.5	13485.2
60°	10246.7	10320.4	10960.1	12231.4	14611.7	15628.2	15712.6	14705.5	15031.4	16403.3	14381.0
62.5°	9368.3	9446.1	10328.5	11939.0	14519.1	16611.1	17509.6	16456.9	16451.5	17256.1	14643.9
65°	7983.0	7960.2	8886.9	10846.1	13742.7	17337.9	19294.5	17970.9	17521.7	17269.6	14115.5
67.5°	5887.0	5785.1	6580.3	8260.6	11422.7	16524.0	20344.5	18759.4	17886.4	16133.7	12500.9
70°	3054.8	2952.9	3596.6	4823.6	7512.4	12896.5	19181.8	18351.8	17080.5	13524.1	9793.4
72.5°	1306.1	1288.7	1550.2	2116.1	3634.1	7438.6	15040.8	15884.3	14655.9	10076.4	6733.2
75°	878.4	873.0	970.9	1153.3	1634.7	3018.6	9412.6	11275.2	10722.7	6247.8	3787.0
77.5°	689.3	682.6	740.2	828.7	1059.4	1190.8	4177.3	6053.3	5602.7	2719.6	1657.5
80°	539.1	533.7	569.9	618.2	761.7	751.0	1374.5	2408.5	1864.0	1042.0	805.9
82.5°	425.1	425.1	454.6	455.9	540.4	512.3	717.4	1060.7	930.7	607.5	493.5
85°	388.9	388.9	419.7	340.6	352.7	323.2	445.2	628.9	590.0	249.4	214.6
87.5°	195.8	190.4	352.7	301.7	191.8	171.6	217.2	304.4	327.2	138.1	107.3
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°	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6
2.5°	3407.5	3406.2	3408.9	3410.2	3420.9	3435.7	3442.4	3451.8	3457.1	3454.4
5°	3367.3	3370.0	3380.7	3388.7	3407.5	3431.7	3445.1	3455.8	3465.2	3461.2
7.5°	3333.8	3340.5	3356.6	3363.3	3374.0	3380.7	3379.4	3383.4	3391.4	3382.0
10°	3315.0	3323.0	3335.1	3325.7	3300.2	3264.0	3230.5	3213.1	3218.4	3211.7
12.5°	3296.2	3306.9	3297.5	3253.3	3182.2	3135.3	3109.8	3112.5	3124.6	3127.2
15°	3285.5	3289.5	3249.3	3166.1	3093.7	3087.0	3100.4	3097.7	3099.1	3099.1
17.5°	3285.5	3274.8	3199.7	3116.5	3085.7	3073.6	3032.0	2979.7	2956.9	2948.9
20°	3302.9	3274.8	3183.6	3128.6	3061.5	2958.3	2848.3	2751.8	2708.8	2696.8
22.5°	3355.2	3306.9	3229.2	3133.9	2943.5	2770.5	2596.2	2480.9	2403.1	2389.7
25°	3461.2	3407.5	3319.0	3062.9	2755.8	2509.0	2310.6	2181.8	2104.0	2093.3
27.5°	3646.2	3611.3	3367.3	2906.0	2506.4	2242.2	2058.5	1959.2	1901.6	1897.5
30°	3925.1	3907.7	3343.1	2674.0	2199.3	1983.4	1894.9	1837.2	1794.3	1792.9
32.5°	4370.4	4229.6	3264.0	2391.0	1919.0	1799.6	1763.4	1728.6	1695.0	1695.0
35°	4943.0	4489.7	3113.8	2088.0	1748.7	1697.7	1652.1	1597.1	1552.9	1550.2
37.5°	5616.2	4650.6	2844.3	1843.9	1668.2	1629.3	1562.3	1480.5	1402.7	1389.3
40°	6296.1	4698.9	2464.8	1693.7	1617.3	1560.9	1479.1	1382.6	1307.5	1303.5
42.5°	6919.6	4606.4	2062.5	1590.4	1566.3	1491.2	1405.4	1319.6	1260.6	1259.2
45°	7442.6	4366.3	1724.5	1492.5	1512.7	1428.2	1351.7	1282.0	1236.4	1227.0
47.5°	7934.8	4027.1	1487.2	1389.3	1459.0	1393.3	1328.9	1263.2	1219.0	1212.3
50°	8506.0	3661.0	1320.9	1288.7	1412.1	1381.2	1347.7	1279.3	1205.6	1197.5
52.5°	9198.0	3344.5	1190.8	1200.2	1375.9	1397.3	1396.0	1324.9	1196.2	1185.5
55°	9970.4	2993.1	1092.9	1127.8	1361.1	1426.8	1408.1	1367.8	1204.2	1188.1
57.5°	10730.8	2582.8	1024.5	1072.8	1339.7	1424.2	1350.4	1292.7	1223.0	1200.2
60°	11300.7	2031.6	972.2	1024.5	1292.7	1379.9	1287.4	1210.9	1219.0	1201.5
62.5°	11338.3	1570.3	909.2	983.0	1221.7	1335.6	1245.8	1174.7	1236.4	1220.3
65°	10671.8	1186.8	848.9	933.3	1145.2	1307.5	1205.6	1154.6	1272.6	1255.2
67.5°	8984.8	954.8	797.9	882.4	1068.8	1248.5	1169.4	1135.8	1304.8	1274.0
70°	6486.5	814.0	748.3	820.7	1000.4	1181.4	1137.2	1102.3	1217.6	1169.4
72.5°	3993.5	705.4	692.0	738.9	948.1	1111.7	1088.9	1039.3	1096.9	1058.1
75°	1994.1	611.5	628.9	658.4	874.3	1032.6	1008.4	958.8	966.9	958.8
77.5°	954.8	523.0	555.2	578.0	779.1	942.7	917.3	866.3	856.9	858.2
80°	604.8	437.2	468.0	484.1	696.0	838.1	812.7	761.7	869.0	805.9
82.5°	378.2	355.4	363.4	392.9	606.1	729.5	696.0	650.4	783.2	619.5
85°	209.2	248.1	258.8	284.3	466.7	610.2	576.6	519.0	465.3	457.3
87.5°	124.7	147.5	151.5	170.3	313.8	441.2	390.2	370.1	307.1	305.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)