

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: P193184

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193184
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-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 27825.1 lumens
Efficiency: N/A
Efficacy: 111.7 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): 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

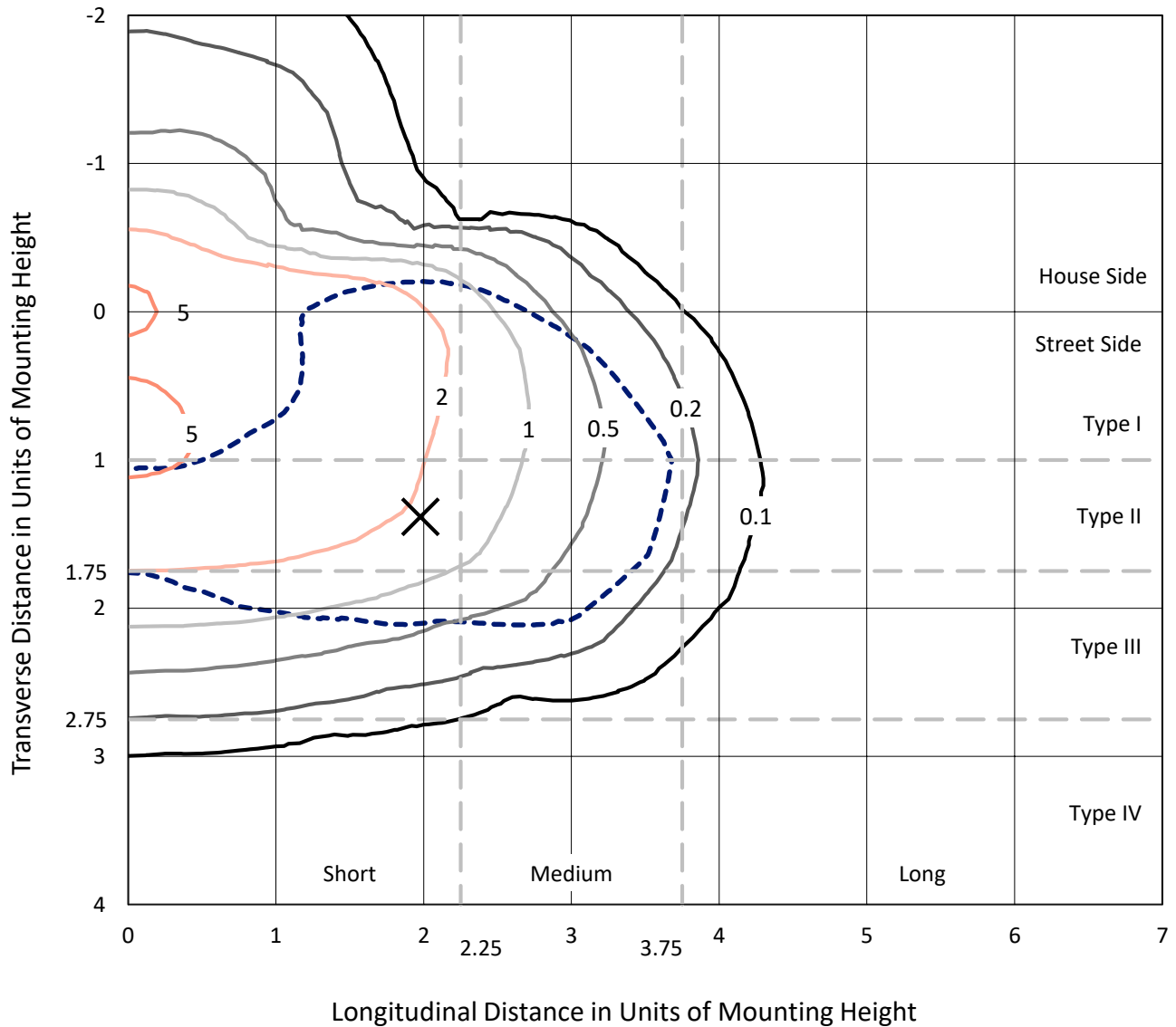


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Iso-Footcandle Lines of Horizontal Illumination

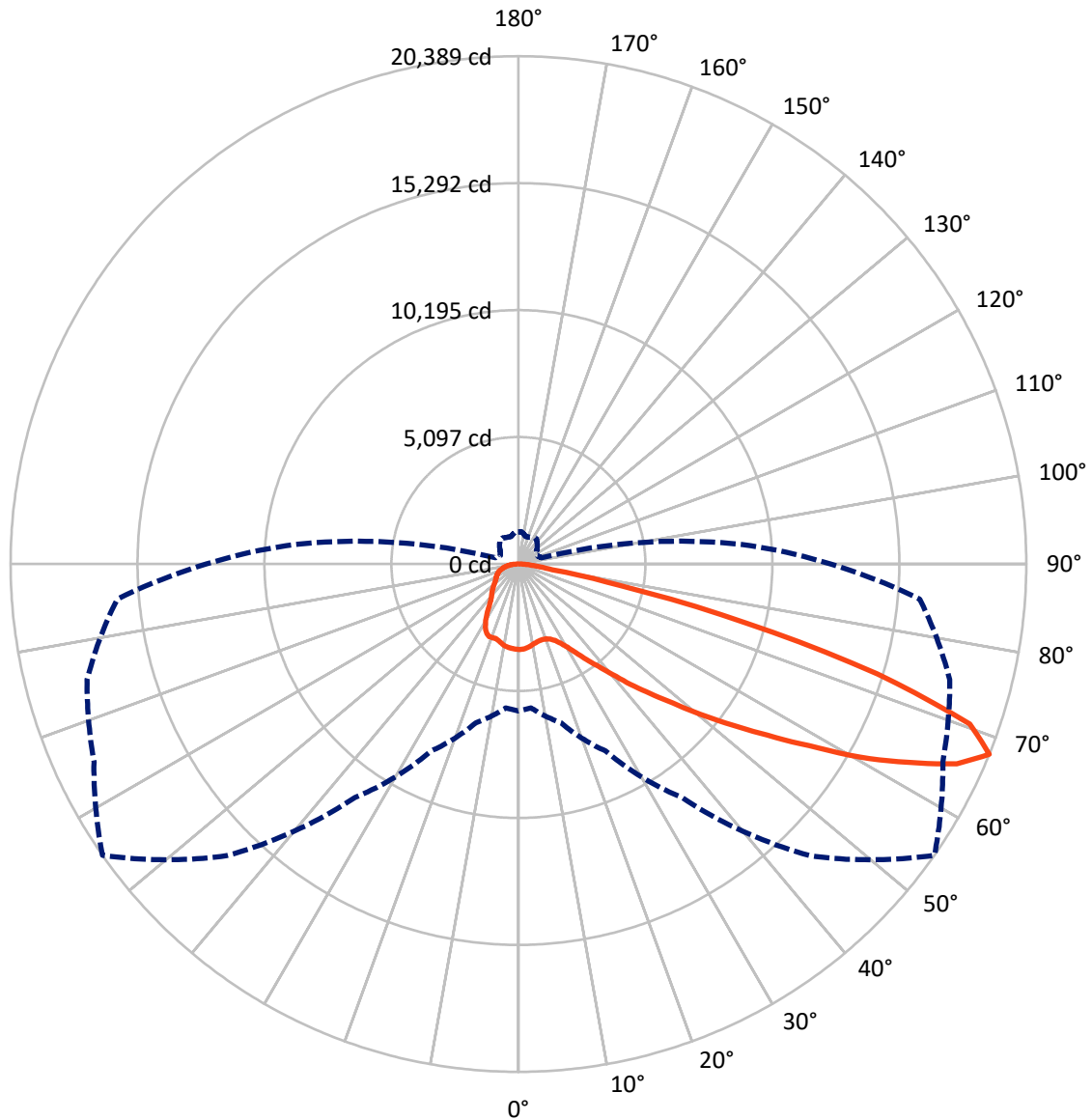
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	6010.8	0.0	6010.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21814.2	0.0	21814.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	27825.1	0.0	27825.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.3	1.2
10°-20°	907.0	3.3
20°-30°	1519.4	5.5
30°-40°	2498.5	9.0
40°-50°	4205.8	15.1
50°-60°	6619.6	23.8
60°-70°	7899.7	28.4
70°-80°	3392.3	12.2
80°-90°	462.5	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°	27825.1	100.0
0°-180°	27825.1	100.0



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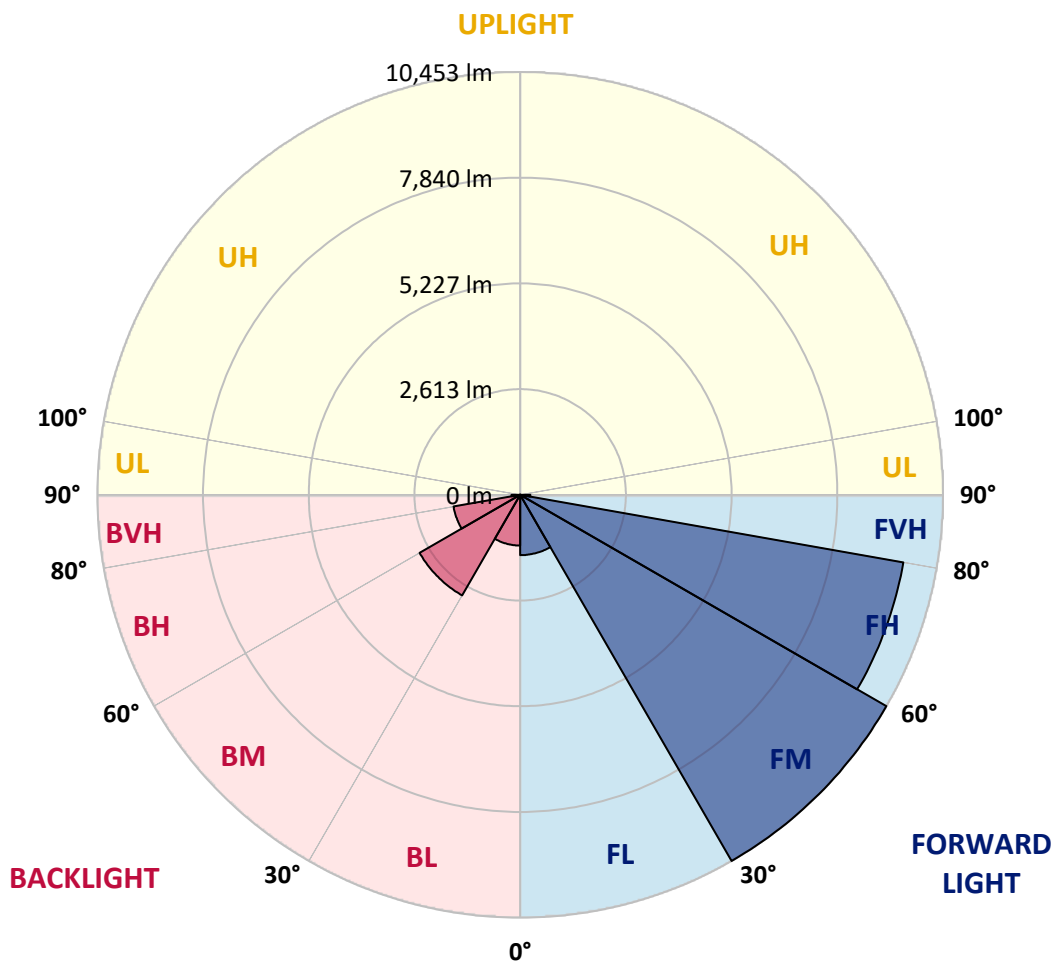
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1491.5	5.4			
FM	(30°-60°)	10453.1	37.6			
FH	(60°-80°)	9619.3	34.6			G4/12000
FVH	(80°-90°)	250.4	0.9			G3/500
BL	(0°-30°)	1255.2	4.5	B3/2500		
BM	(30°-60°)	2870.7	10.3	B3/5000		
BH	(60°-80°)	1672.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	212.1	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°	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2
2.5°	3401.6	3402.9	3405.6	3416.3	3425.8	3423.1	3424.4	3419.0	3417.7	3409.7	3417.7
5°	3358.5	3362.6	3364.0	3381.3	3392.2	3394.8	3390.9	3384.1	3376.0	3367.9	3372.0
7.5°	3260.4	3271.2	3272.6	3296.8	3314.2	3337.1	3338.4	3339.7	3335.6	3330.3	3338.4
10°	3198.7	3201.3	3199.9	3217.4	3230.9	3256.5	3271.2	3296.8	3307.5	3310.2	3315.6
12.5°	3194.6	3191.9	3187.8	3187.8	3183.9	3194.6	3221.5	3257.8	3283.3	3291.3	3298.1
15°	3237.6	3236.3	3222.8	3202.6	3177.2	3169.1	3191.9	3232.2	3265.9	3283.3	3290.1
17.5°	3334.4	3326.3	3304.8	3259.1	3204.0	3182.5	3185.2	3218.8	3257.8	3280.6	3287.3
20°	3511.8	3511.8	3466.0	3380.1	3281.9	3230.9	3206.6	3226.9	3264.4	3295.4	3304.8
22.5°	3818.2	3820.9	3744.4	3603.2	3437.9	3329.0	3268.5	3264.4	3308.8	3343.8	3354.5
25°	4252.3	4241.6	4134.1	3932.5	3681.2	3501.0	3396.3	3372.0	3409.7	3448.7	3462.1
27.5°	4757.5	4718.7	4591.0	4347.8	4022.5	3759.1	3597.8	3558.8	3595.0	3639.4	3652.9
30°	5257.5	5217.2	5065.4	4799.3	4437.8	4104.5	3873.3	3810.1	3861.2	3924.4	3932.5
32.5°	5757.5	5757.5	5588.2	5277.8	4884.0	4517.1	4240.3	4165.0	4249.6	4326.2	4343.7
35°	6355.6	6358.3	6194.4	5820.7	5397.3	5009.0	4703.8	4648.8	4776.5	4830.3	4871.9
37.5°	7090.7	7105.5	6894.5	6442.9	5979.3	5570.7	5207.9	5132.6	5260.3	5406.8	5541.2
40°	7885.0	7903.9	7671.3	7115.0	6651.2	6223.9	5831.5	5695.6	5908.0	6187.6	6361.0
42.5°	8643.1	8739.7	8515.3	7942.8	7444.2	7002.0	6604.1	6406.6	6672.8	7094.7	7245.3
45°	9738.4	9808.2	9417.2	8898.4	8429.4	7934.7	7407.9	7199.6	7571.8	8104.1	8135.0
47.5°	10468.1	10415.6	10216.9	9894.2	9597.3	9134.9	8342.0	8113.5	8608.1	9234.4	9061.0
50°	10856.5	10872.6	10845.7	10864.6	10875.3	10585.0	9487.0	9173.9	9763.9	10520.6	10121.3
52.5°	11219.4	11111.8	11200.6	11641.3	12173.5	12066.0	10732.9	10406.3	11003.1	11947.8	11242.2
55°	11211.3	11047.3	11336.3	12114.4	13268.9	13392.6	12131.9	11755.6	12313.4	13478.6	12430.3
57.5°	10814.8	10822.9	11267.8	12286.5	14032.2	14639.7	13755.4	13191.0	13703.1	15029.4	13514.9
60°	10269.2	10343.1	10984.2	12258.3	14643.8	15662.6	15747.2	14737.9	15064.4	16439.3	14412.6
62.5°	9388.8	9466.9	10351.2	11965.3	14551.0	16647.7	17548.1	16493.1	16487.8	17294.1	14676.0
65°	8000.6	7977.8	8906.4	10869.9	13772.9	17376.0	19336.9	18010.4	17560.1	17307.5	14146.6
67.5°	5900.0	5797.9	6594.8	8278.8	11447.8	16560.3	20389.2	18800.7	17925.7	16169.2	12528.4
70°	3061.6	2959.4	3604.5	4834.1	7528.8	12924.9	19224.0	18392.1	17118.0	13553.8	9815.0
72.5°	1309.0	1291.6	1553.6	2120.7	3642.1	7455.0	15073.9	15919.2	14688.2	10098.5	6748.1
75°	880.3	874.9	973.1	1155.9	1638.4	3025.3	9433.2	11300.0	10746.3	6261.5	3795.3
77.5°	690.8	684.1	741.9	830.6	1061.8	1193.4	4186.5	6066.6	5615.1	2725.6	1661.2
80°	540.3	535.0	571.2	619.6	763.4	752.6	1377.5	2413.7	1868.2	1044.3	807.8
82.5°	426.0	426.0	455.6	456.9	541.6	513.4	719.0	1063.1	932.7	608.8	494.6
85°	389.7	389.7	420.6	341.3	353.5	323.9	446.3	630.3	591.3	249.9	215.0
87.5°	196.2	190.8	353.5	302.4	192.2	172.0	217.8	305.1	327.9	138.4	107.5
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°	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2
2.5°	3415.0	3413.7	3416.3	3417.7	3428.4	3443.2	3450.0	3459.3	3464.7	3462.1
5°	3374.7	3377.4	3388.1	3396.3	3415.0	3439.2	3452.6	3463.4	3472.8	3468.8
7.5°	3341.0	3347.8	3364.0	3370.6	3381.3	3388.1	3386.8	3390.9	3398.8	3389.4
10°	3322.2	3330.3	3342.5	3333.1	3307.5	3271.2	3237.6	3220.1	3225.6	3218.8
12.5°	3303.5	3314.2	3304.8	3260.4	3189.2	3142.2	3116.6	3119.4	3131.5	3134.1
15°	3292.7	3296.8	3256.5	3173.1	3100.6	3093.7	3107.3	3104.6	3105.9	3105.9
17.5°	3292.7	3281.9	3206.6	3123.4	3092.5	3080.3	3038.7	2986.3	2963.4	2955.4
20°	3310.2	3281.9	3190.6	3135.4	3068.2	2964.8	2854.6	2757.8	2714.8	2702.7
22.5°	3362.6	3314.2	3236.3	3140.8	2950.0	2776.6	2601.9	2486.3	2408.4	2395.0
25°	3468.8	3415.0	3326.3	3069.6	2761.8	2514.6	2315.6	2186.6	2108.7	2097.9
27.5°	3654.2	3619.3	3374.7	2912.5	2511.9	2247.1	2063.1	1963.5	1905.7	1901.6
30°	3933.8	3916.3	3350.6	2679.9	2204.1	1987.8	1899.0	1841.2	1798.2	1796.9
32.5°	4379.9	4238.8	3271.2	2396.3	1923.2	1803.6	1767.3	1732.5	1698.8	1698.8
35°	4953.9	4499.7	3120.7	2092.6	1752.5	1701.5	1655.8	1600.6	1556.3	1553.6
37.5°	5628.5	4660.9	2850.6	1847.9	1671.8	1632.9	1565.6	1483.7	1405.7	1392.3
40°	6309.9	4709.3	2470.3	1697.5	1620.9	1564.4	1482.4	1385.6	1310.3	1306.3
42.5°	6934.8	4616.5	2066.9	1594.0	1569.7	1494.4	1408.5	1322.5	1263.4	1262.0
45°	7459.0	4376.0	1728.4	1495.9	1516.0	1431.3	1354.7	1284.8	1239.1	1229.7
47.5°	7952.2	4035.9	1490.4	1392.3	1462.2	1396.4	1331.9	1266.0	1221.6	1215.0
50°	8524.7	3669.0	1323.7	1291.6	1415.2	1384.4	1350.7	1282.1	1208.2	1200.1
52.5°	9218.2	3351.8	1193.4	1202.8	1378.9	1400.3	1399.1	1327.8	1198.8	1188.0
55°	9992.3	2999.7	1095.4	1130.3	1364.1	1429.9	1411.2	1370.8	1206.9	1190.7
57.5°	10754.4	2588.5	1026.8	1075.2	1342.6	1427.3	1353.4	1295.6	1225.7	1202.8
60°	11325.6	2036.1	974.4	1026.8	1295.6	1382.9	1290.3	1213.6	1221.6	1204.1
62.5°	11363.2	1573.8	911.2	985.1	1224.4	1338.5	1248.5	1177.3	1239.1	1223.0
65°	10695.3	1189.4	850.7	935.4	1147.8	1310.3	1208.2	1157.2	1275.4	1257.9
67.5°	9004.5	956.9	799.7	884.4	1071.2	1251.2	1172.0	1138.4	1307.8	1276.8
70°	6500.7	815.8	749.9	822.5	1002.6	1184.1	1139.7	1104.7	1220.3	1172.0
72.5°	4002.2	706.9	693.5	740.6	950.2	1114.1	1091.3	1041.6	1099.3	1060.4
75°	1998.5	612.8	630.3	659.9	876.3	1034.9	1010.6	960.9	969.0	960.9
77.5°	956.9	524.1	556.3	579.3	780.8	944.8	919.3	868.2	858.8	860.1
80°	606.2	438.1	469.0	485.2	697.5	839.9	814.4	763.4	870.9	807.8
82.5°	379.0	356.1	364.2	393.8	607.5	731.2	697.5	651.8	784.9	620.9
85°	209.7	248.7	259.4	284.9	467.7	611.6	577.9	520.1	466.3	458.4
87.5°	125.0	147.8	151.9	170.7	314.4	442.2	391.0	370.9	307.8	306.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)