

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: P193978

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193978
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-10-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31683 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

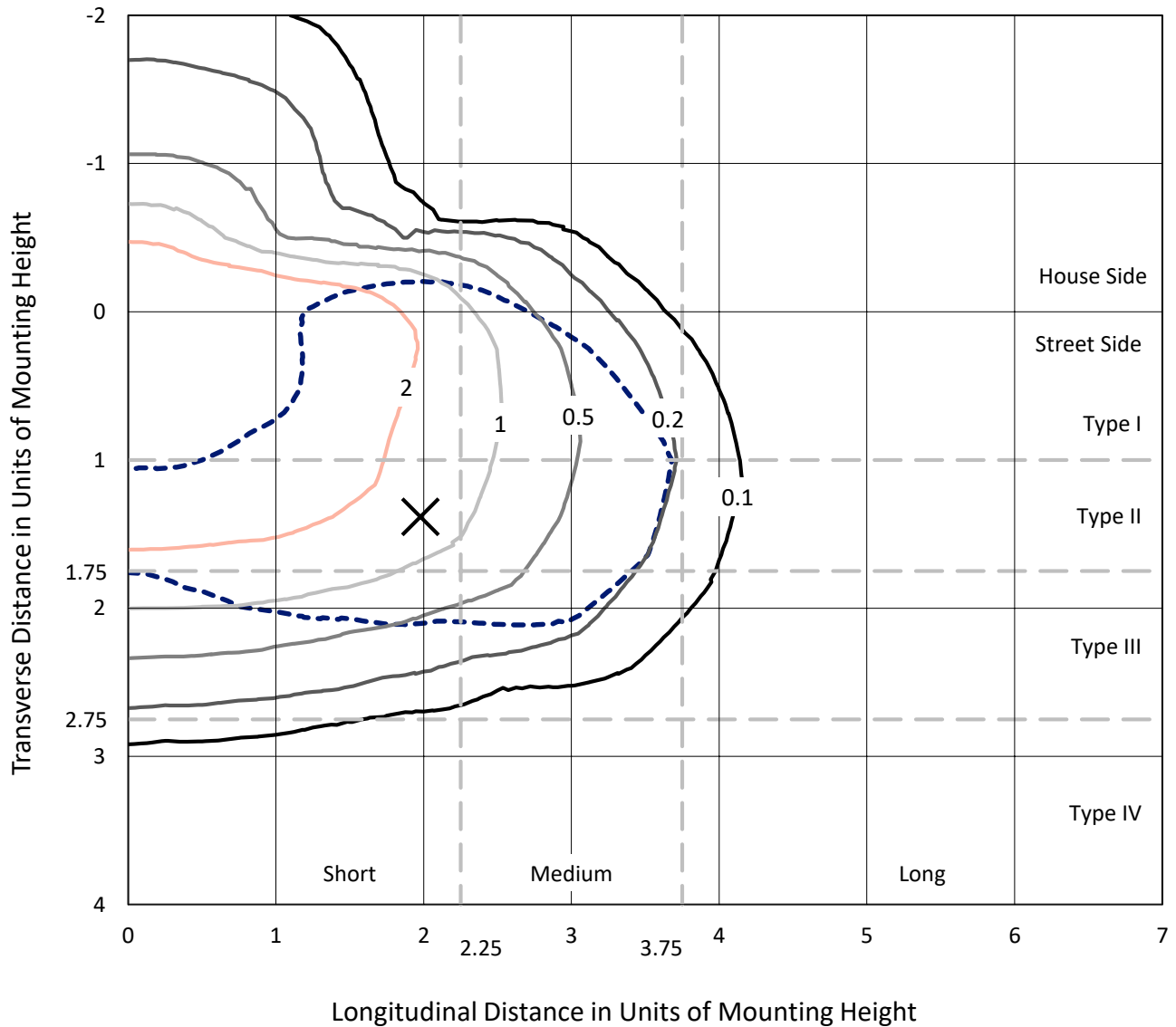
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

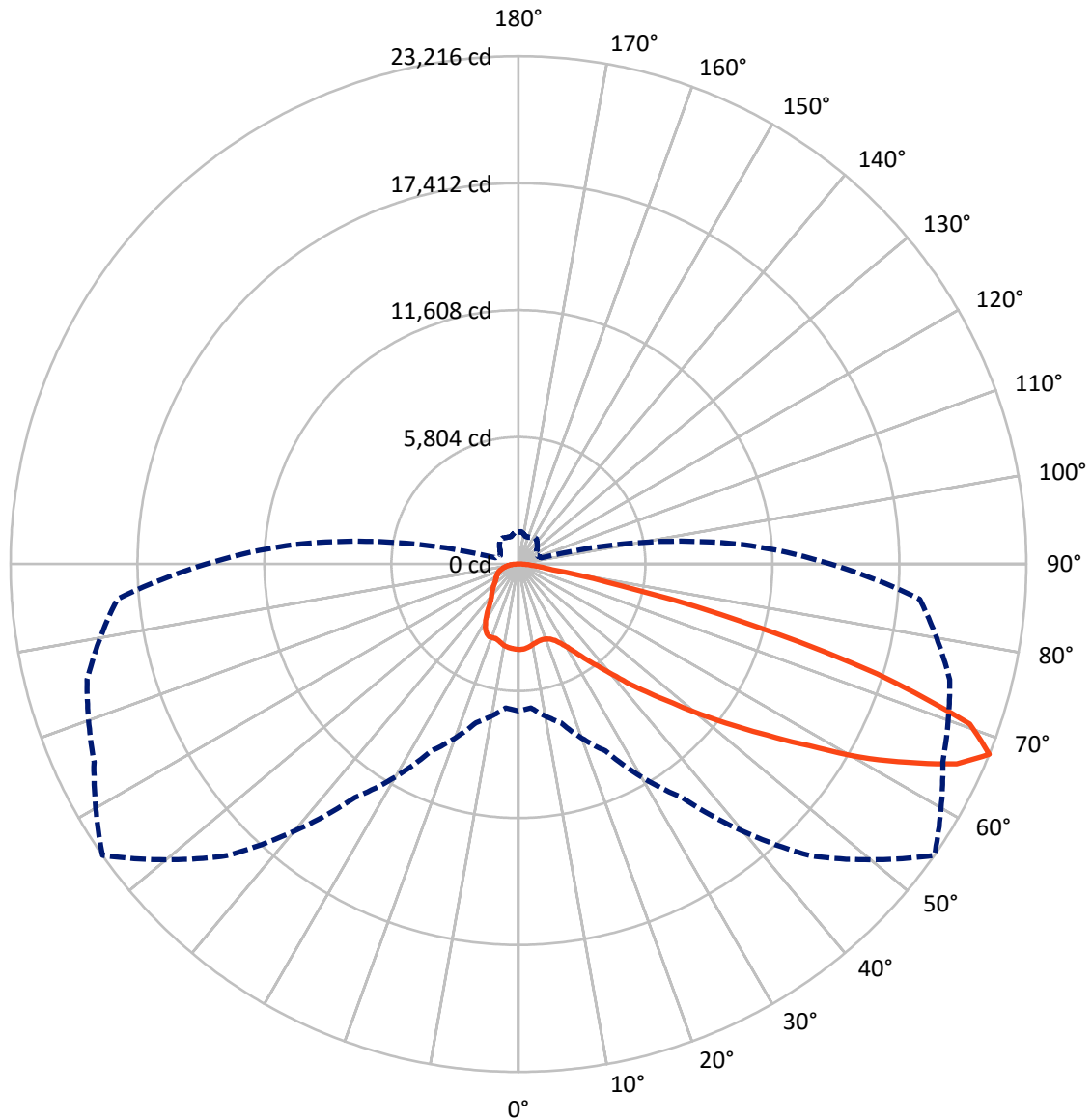
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	6844.2	0.0	6844.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24838.8	0.0	24838.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	31683.0	0.0	31683.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.7	1.2
10°-20°	1032.8	3.3
20°-30°	1730.0	5.5
30°-40°	2844.9	9.0
40°-50°	4788.9	15.1
50°-60°	7537.4	23.8
60°-70°	8995.0	28.4
70°-80°	3862.6	12.2
80°-90°	526.6	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°	31683.0	100.0
0°-180°	31683.0	100.0



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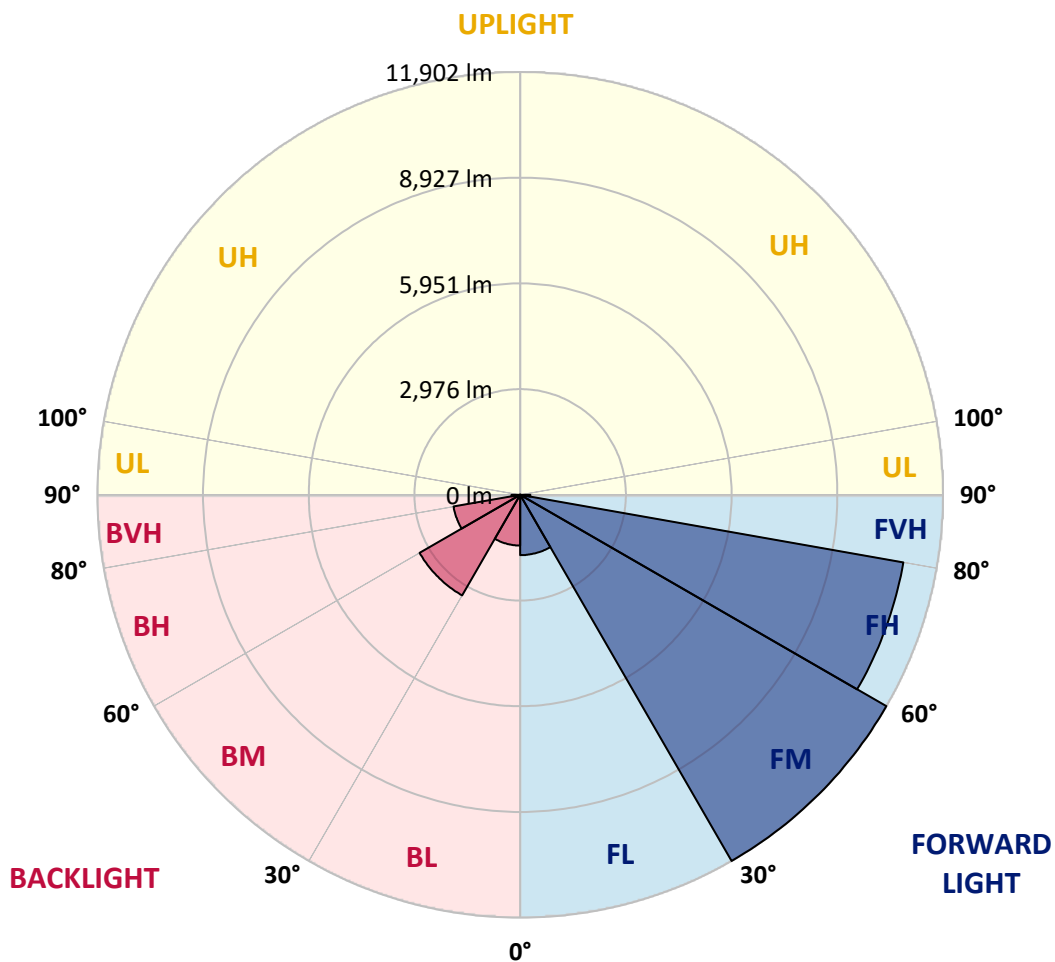
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.3	5.4			
FM (30°-60°)	11902.5	37.6			
FH (60°-80°)	10953.0	34.6			G4/12000
FVH (80°-90°)	285.1	0.9			G3/500
BL (0°-30°)	1429.2	4.5	B3/2500		
BM (30°-60°)	3268.7	10.3	B3/5000		
BH (60°-80°)	1904.7	6.0	B3/2500		G3/2500
BVH (80°-90°)	241.6	0.8			G3/500
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°	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9
2.5°	3873.2	3874.7	3877.8	3890.0	3900.7	3897.7	3899.2	3893.1	3891.6	3882.4	3891.6
5°	3824.2	3828.8	3830.3	3850.2	3862.5	3865.5	3861.0	3853.3	3844.1	3834.9	3839.5
7.5°	3712.5	3724.8	3726.3	3753.8	3773.7	3799.7	3801.3	3802.8	3798.2	3792.1	3801.3
10°	3642.1	3645.2	3643.6	3663.5	3678.8	3707.9	3724.8	3753.8	3766.1	3769.1	3775.3
12.5°	3637.5	3634.5	3629.9	3629.9	3625.3	3637.5	3668.1	3709.5	3738.5	3747.7	3755.4
15°	3686.5	3685.0	3669.7	3646.7	3617.6	3608.5	3634.5	3680.4	3718.6	3738.5	3746.2
17.5°	3796.7	3787.5	3763.0	3711.0	3648.2	3623.8	3626.8	3665.1	3709.5	3735.5	3743.1
20°	3998.7	3998.7	3946.6	3848.7	3737.0	3678.8	3651.3	3674.3	3717.1	3752.3	3763.0
22.5°	4347.6	4350.6	4263.4	4102.7	3914.5	3790.6	3721.7	3717.1	3767.6	3807.4	3819.6
25°	4841.9	4829.6	4707.2	4477.7	4191.5	3986.4	3867.1	3839.5	3882.4	3926.8	3942.1
27.5°	5417.3	5372.9	5227.5	4950.5	4580.2	4280.3	4096.6	4052.2	4093.6	4144.1	4159.4
30°	5986.5	5940.6	5767.7	5464.7	5053.1	4673.5	4410.3	4338.4	4396.6	4468.5	4477.7
32.5°	6555.8	6555.8	6363.0	6009.5	5561.1	5143.3	4828.1	4742.4	4838.8	4926.0	4945.9
35°	7236.8	7239.9	7053.2	6627.7	6145.7	5703.4	5356.1	5293.3	5438.7	5499.9	5547.3
37.5°	8073.9	8090.7	7850.4	7336.3	6808.3	6343.1	5929.9	5844.2	5989.6	6156.4	6309.4
40°	8978.3	8999.7	8735.0	8101.4	7573.5	7086.8	6640.0	6485.4	6727.2	7045.5	7242.9
42.5°	9841.4	9951.6	9696.0	9044.1	8476.3	7972.9	7519.9	7294.9	7597.9	8078.5	8249.9
45°	11088.6	11168.1	10722.8	10132.1	9598.1	9034.9	8435.0	8197.8	8621.7	9227.7	9262.9
47.5°	11919.5	11859.8	11633.4	11266.1	10927.9	10401.5	9498.6	9238.4	9801.6	10514.7	10317.3
50°	12361.8	12380.1	12349.5	12371.0	12383.2	12052.7	10802.4	10445.8	11117.6	11979.2	11524.7
52.5°	12775.0	12652.5	12753.5	13255.5	13861.5	13739.0	12221.0	11849.1	12528.6	13604.4	12801.0
55°	12765.8	12579.1	12908.1	13794.1	15108.7	15249.5	13814.0	13385.5	14020.6	15347.4	14153.8
57.5°	12314.3	12323.5	12830.0	13990.0	15977.9	16669.6	15662.6	15019.9	15603.0	17113.4	15388.7
60°	11693.0	11777.2	12507.2	13957.9	16674.2	17834.1	17930.5	16781.3	17153.2	18718.6	16411.0
62.5°	10690.7	10779.4	11786.4	13624.3	16568.6	18955.8	19981.1	18779.9	18773.7	19691.9	16710.9
65°	9109.9	9083.9	10141.3	12377.1	15682.5	19785.3	22018.0	20507.6	19994.9	19707.2	16108.0
67.5°	6718.0	6601.7	7509.2	9426.7	13035.1	18856.4	23216.2	21407.4	20411.2	18411.1	14265.5
70°	3486.0	3369.7	4104.3	5504.5	8572.7	14716.9	21889.4	20942.2	19491.5	15433.1	11175.8
72.5°	1490.5	1470.6	1769.0	2414.8	4147.1	8488.6	17163.9	18126.4	16724.7	11498.7	7683.6
75°	1002.3	996.2	1107.9	1316.1	1865.4	3444.7	10741.2	12866.8	12236.3	7129.7	4321.6
77.5°	786.6	778.9	844.7	945.7	1208.9	1358.9	4766.9	6907.8	6393.6	3103.5	1891.5
80°	615.2	609.1	650.4	705.5	869.2	857.0	1568.6	2748.4	2127.1	1189.0	919.7
82.5°	485.1	485.1	518.8	520.3	616.7	584.6	818.7	1210.5	1062.0	693.2	563.2
85°	443.8	443.8	479.0	388.7	402.5	368.8	508.1	717.7	673.3	284.6	244.8
87.5°	223.4	217.3	402.5	344.3	218.8	195.9	247.9	347.4	373.4	157.6	122.4
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°	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9	3906.9
2.5°	3888.5	3887.0	3890.0	3891.6	3903.8	3920.6	3928.3	3939.0	3945.1	3942.1
5°	3842.6	3845.6	3857.9	3867.1	3888.5	3916.0	3931.3	3943.6	3954.3	3949.7
7.5°	3804.3	3812.0	3830.3	3838.0	3850.2	3857.9	3856.4	3861.0	3870.1	3859.4
10°	3782.9	3792.1	3805.9	3795.1	3766.1	3724.8	3686.5	3666.6	3672.7	3665.1
12.5°	3761.5	3773.7	3763.0	3712.5	3631.4	3577.8	3548.8	3551.8	3565.6	3568.7
15°	3749.2	3753.8	3707.9	3613.0	3530.4	3522.8	3538.1	3535.0	3536.5	3536.5
17.5°	3749.2	3737.0	3651.3	3556.4	3521.2	3507.5	3460.0	3400.3	3374.3	3365.1
20°	3769.1	3737.0	3632.9	3570.2	3493.7	3375.8	3250.4	3140.2	3091.2	3077.4
22.5°	3828.8	3773.7	3685.0	3576.3	3359.0	3161.6	2962.7	2831.1	2742.3	2727.0
25°	3949.7	3888.5	3787.5	3495.2	3144.8	2863.2	2636.7	2489.8	2401.0	2388.8
27.5°	4160.9	4121.1	3842.6	3316.2	2860.1	2558.7	2349.0	2235.8	2170.0	2165.4
30°	4479.2	4459.3	3815.0	3051.4	2509.7	2263.3	2162.3	2096.5	2047.5	2046.0
32.5°	4987.3	4826.6	3724.8	2728.5	2189.9	2053.7	2012.3	1972.6	1934.3	1934.3
35°	5640.7	5123.4	3553.4	2382.7	1995.5	1937.4	1885.3	1822.6	1772.1	1769.0
37.5°	6408.9	5307.1	3245.8	2104.2	1903.7	1859.3	1782.8	1689.5	1600.7	1585.4
40°	7184.8	5362.2	2812.7	1932.8	1845.5	1781.3	1687.9	1577.7	1492.0	1487.5
42.5°	7896.4	5256.6	2353.6	1814.9	1787.4	1701.7	1603.8	1505.8	1438.5	1437.0
45°	8493.2	4982.7	1968.0	1703.2	1726.2	1629.8	1542.5	1463.0	1410.9	1400.2
47.5°	9054.8	4595.5	1697.1	1585.4	1665.0	1590.0	1516.5	1441.5	1391.0	1383.4
50°	9706.7	4177.7	1507.3	1470.6	1611.4	1576.2	1538.0	1459.9	1375.7	1366.6
52.5°	10496.3	3816.6	1358.9	1369.6	1570.1	1594.6	1593.0	1511.9	1365.0	1352.8
55°	11377.8	3415.6	1247.2	1287.0	1553.3	1628.2	1606.8	1560.9	1374.2	1355.8
57.5°	12245.5	2947.4	1169.2	1224.2	1528.8	1625.2	1541.0	1475.2	1395.6	1369.6
60°	12895.9	2318.4	1109.5	1169.2	1475.2	1574.7	1469.1	1381.9	1391.0	1371.2
62.5°	12938.7	1792.0	1037.5	1121.7	1394.1	1524.2	1421.7	1340.5	1410.9	1392.6
65°	12178.1	1354.3	968.7	1065.1	1306.9	1492.0	1375.7	1317.6	1452.3	1432.4
67.5°	10253.0	1089.6	910.5	1006.9	1219.7	1424.7	1334.4	1296.2	1489.0	1453.8
70°	7402.1	928.9	853.9	936.5	1141.6	1348.2	1297.7	1257.9	1389.5	1334.4
72.5°	4557.2	804.9	789.6	843.2	1081.9	1268.6	1242.6	1186.0	1251.8	1207.4
75°	2275.6	697.8	717.7	751.4	997.8	1178.3	1150.8	1094.2	1103.3	1094.2
77.5°	1089.6	596.8	633.5	659.6	889.1	1075.8	1046.7	988.6	977.9	979.4
80°	690.2	498.9	534.1	552.4	794.2	956.4	927.4	869.2	991.6	919.7
82.5°	431.5	405.5	414.7	448.4	691.7	832.5	794.2	742.2	893.7	707.0
85°	238.7	283.1	295.3	324.4	532.5	696.3	658.0	592.2	531.0	521.8
87.5°	142.3	168.3	172.9	194.3	358.1	503.5	445.3	422.4	350.4	348.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)