

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: P192253

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192253
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-05-LED-E1-T3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29756 lumens
Efficiency: N/A
Efficacy: 106.7 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): 279
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

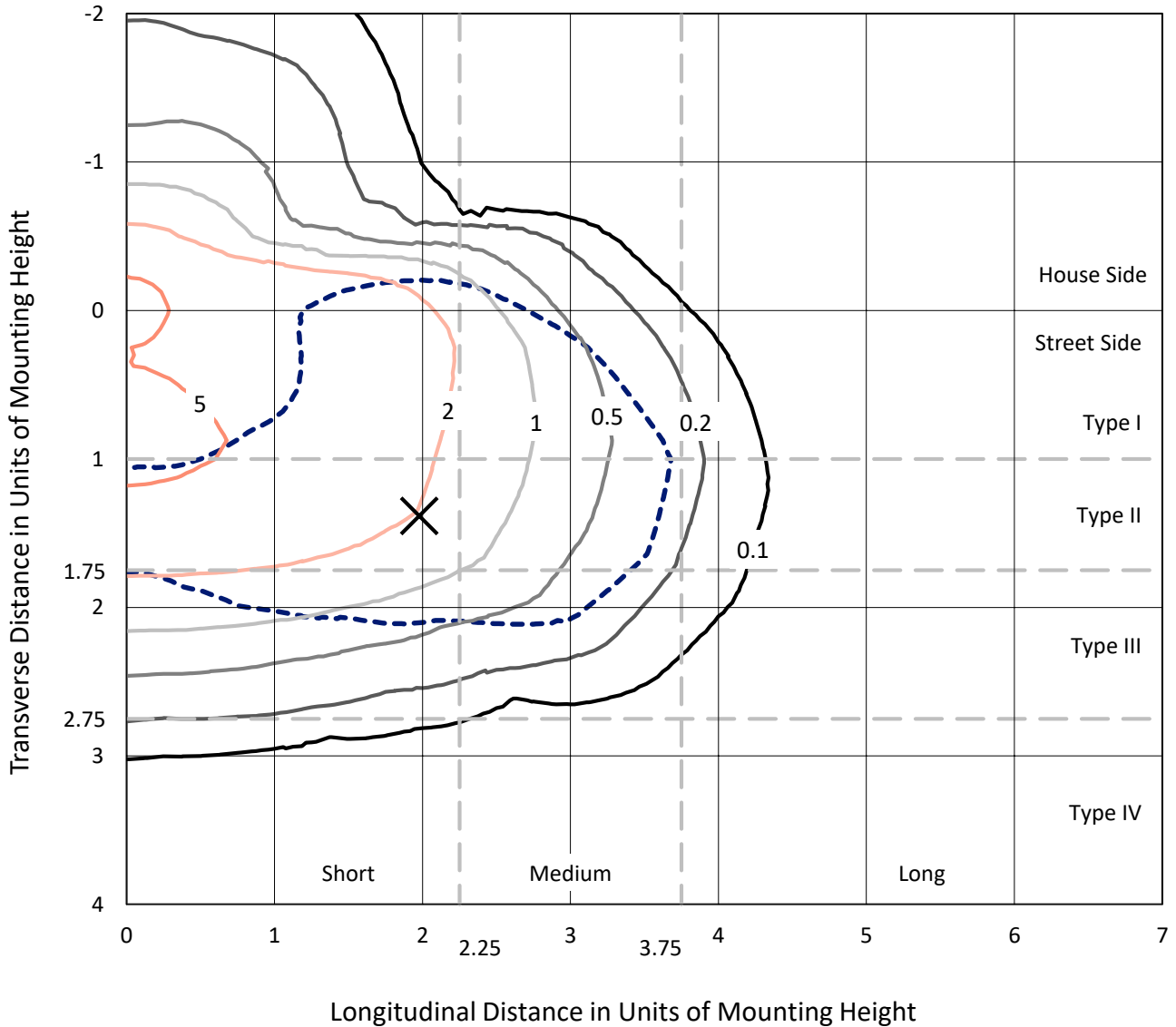


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

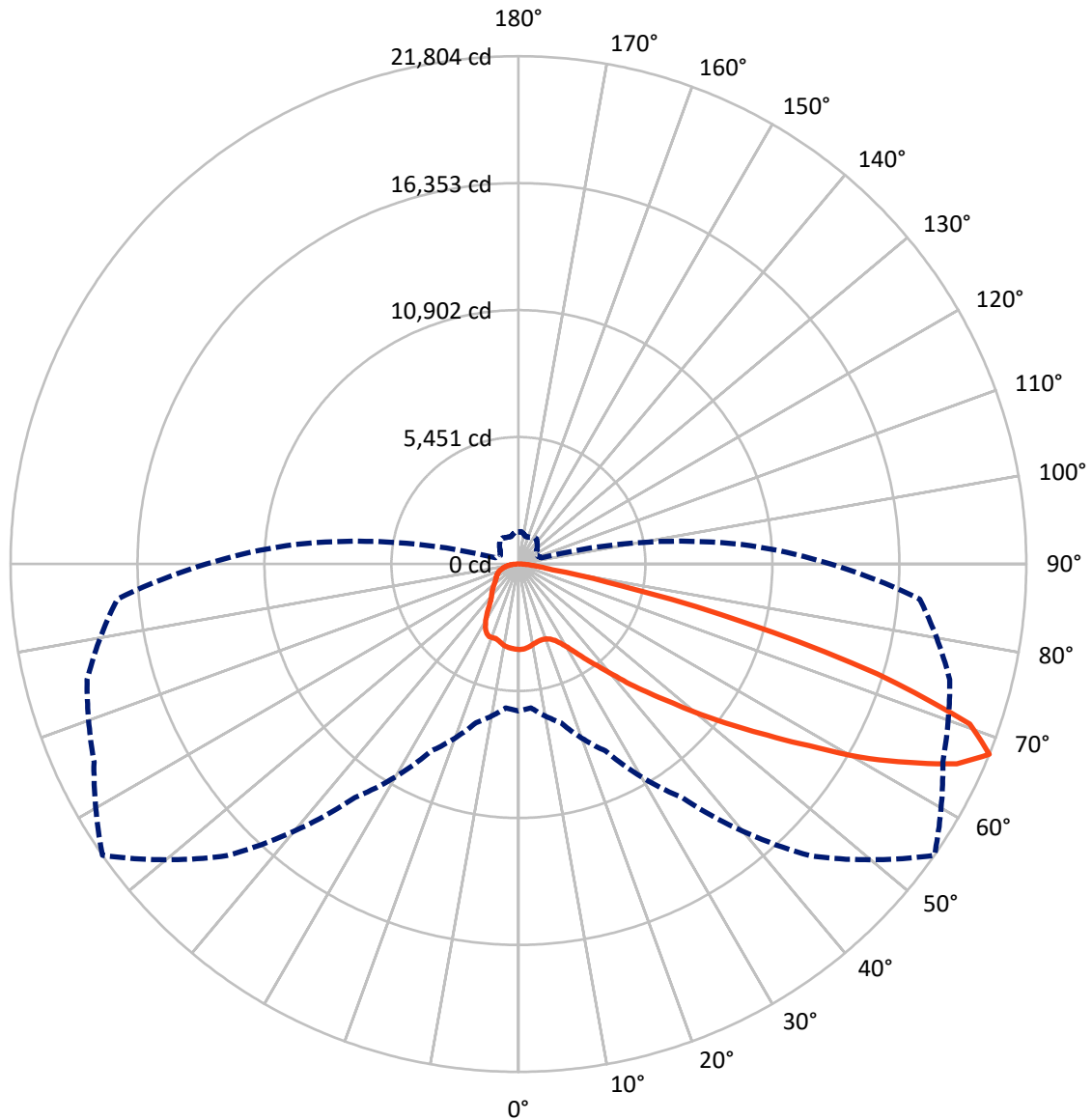


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Full Cutoff

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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	6427.9	0.0	6427.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23328.1	0.0	23328.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	29756.0	0.0	29756.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.2
10°-20°	970.0	3.3
20°-30°	1624.8	5.5
30°-40°	2671.9	9.0
40°-50°	4497.6	15.1
50°-60°	7078.9	23.8
60°-70°	8448.0	28.4
70°-80°	3627.7	12.2
80°-90°	494.6	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°	29756.0	100.0
0°-180°	29756.0	100.0



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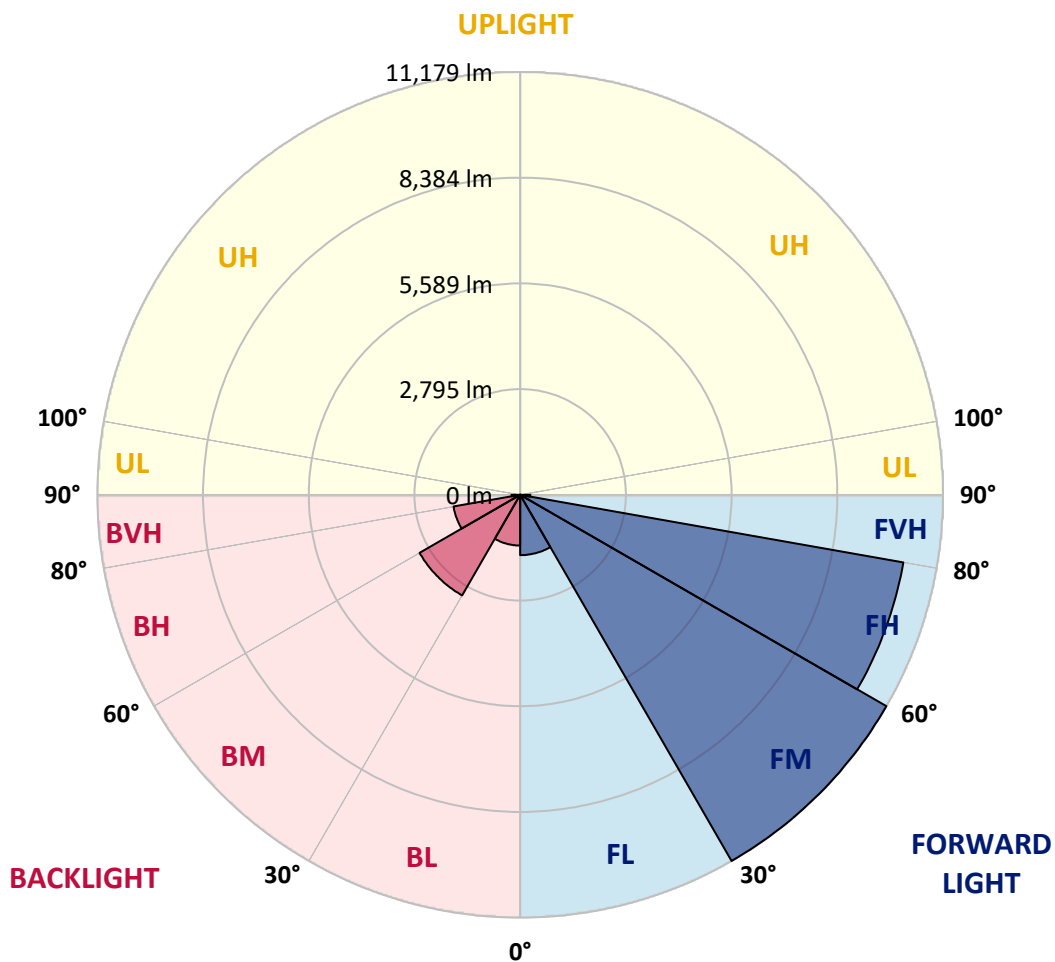
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.0	5.4			
FM	(30°-60°)	11178.6	37.6			
FH	(60°-80°)	10286.8	34.6			G4/12000
FVH	(80°-90°)	267.7	0.9			G3/500
BL	(0°-30°)	1342.3	4.5	B3/2500		
BM	(30°-60°)	3069.9	10.3	B3/5000		
BH	(60°-80°)	1788.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	226.9	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°	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2
2.5°	3637.6	3639.1	3641.9	3653.4	3663.5	3660.6	3662.1	3656.3	3654.9	3646.2	3654.9
5°	3591.6	3595.9	3597.4	3616.1	3627.6	3630.4	3626.1	3618.9	3610.3	3601.7	3606.0
7.5°	3486.7	3498.2	3499.6	3525.5	3544.2	3568.6	3570.1	3571.5	3567.2	3561.4	3570.1
10°	3420.6	3423.5	3422.0	3440.7	3455.1	3482.4	3498.2	3525.5	3537.0	3539.9	3545.6
12.5°	3416.3	3413.4	3409.1	3409.1	3404.8	3416.3	3445.0	3483.8	3511.1	3519.8	3527.0
15°	3462.3	3460.8	3446.5	3424.9	3397.6	3389.0	3413.4	3456.5	3492.5	3511.1	3518.3
17.5°	3565.8	3557.1	3534.1	3485.3	3426.3	3403.4	3406.2	3442.2	3483.8	3508.3	3515.5
20°	3755.5	3755.5	3706.6	3614.6	3509.7	3455.1	3429.2	3450.8	3491.0	3524.1	3534.1
22.5°	4083.2	4086.0	4004.1	3853.2	3676.4	3560.0	3495.3	3491.0	3538.5	3575.8	3587.3
25°	4547.4	4535.9	4420.9	4205.3	3936.6	3744.0	3631.9	3606.0	3646.2	3687.9	3702.3
27.5°	5087.8	5046.1	4909.6	4649.4	4301.6	4019.9	3847.5	3805.8	3844.6	3892.0	3906.4
30°	5622.4	5579.3	5416.9	5132.3	4745.7	4389.3	4142.1	4074.5	4129.2	4196.7	4205.3
32.5°	6157.1	6157.1	5976.0	5644.0	5222.9	4830.5	4534.5	4454.0	4544.5	4626.4	4645.1
35°	6796.6	6799.5	6624.2	6224.6	5771.9	5356.5	5030.3	4971.4	5107.9	5165.4	5209.9
37.5°	7582.8	7598.6	7373.0	6890.1	6394.2	5957.3	5569.3	5488.8	5625.3	5782.0	5925.7
40°	8432.2	8452.3	8203.7	7608.7	7112.8	6655.8	6236.1	6091.0	6318.0	6617.0	6802.4
42.5°	9242.8	9346.3	9106.3	8494.0	7960.8	7488.0	7062.5	6851.3	7135.8	7587.1	7748.1
45°	10414.1	10488.9	10070.6	9515.9	9014.3	8485.4	7922.0	7699.2	8097.3	8666.5	8699.5
47.5°	11194.6	11138.5	10925.8	10580.9	10263.2	9768.8	8920.9	8676.5	9205.4	9875.2	9689.8
50°	11609.9	11627.2	11598.4	11618.5	11630.0	11319.6	10145.4	9810.5	10441.5	11250.6	10823.8
52.5°	11998.0	11883.0	11977.8	12449.3	13018.4	12903.4	11477.7	11128.4	11766.6	12776.9	12022.4
55°	11989.3	11814.0	12123.0	12955.2	14189.7	14322.0	12973.8	12571.4	13167.9	14413.9	13292.9
57.5°	11565.4	11574.0	12049.7	13139.1	15006.1	15655.7	14710.0	14106.4	14654.0	16072.5	14452.8
60°	10981.8	11060.9	11746.5	13108.9	15660.0	16749.4	16840.0	15760.6	16109.9	17580.2	15412.8
62.5°	10040.5	10123.8	11069.5	12795.6	15560.9	17802.9	18765.9	17637.6	17631.9	18494.2	15694.5
65°	8555.8	8531.4	9524.5	11624.3	14728.7	18581.9	20678.8	19260.3	18778.8	18508.6	15128.2
67.5°	6309.4	6200.2	7052.5	8853.3	12242.3	17709.5	21804.2	20105.4	19169.7	17291.3	13397.8
70°	3274.0	3164.8	3854.6	5169.7	8051.3	13821.8	20558.1	19668.4	18306.0	14494.4	10496.1
72.5°	1399.9	1381.2	1661.4	2267.9	3894.9	7972.3	16119.9	17024.0	15707.5	10799.3	7216.3
75°	941.4	935.6	1040.6	1236.0	1752.0	3235.2	10087.9	12084.2	11492.1	6696.0	4058.7
77.5°	738.7	731.5	793.3	888.2	1135.4	1276.3	4477.0	6487.6	6004.7	2914.7	1776.4
80°	577.8	572.0	610.8	662.6	816.3	804.8	1473.2	2581.3	1997.7	1116.7	863.8
82.5°	455.6	455.6	487.2	488.7	579.2	549.0	768.9	1136.8	997.4	651.1	528.9
85°	416.8	416.8	449.9	365.1	378.0	346.4	477.2	674.1	632.4	267.3	230.0
87.5°	209.8	204.1	378.0	323.4	205.5	184.0	232.8	326.3	350.7	148.0	115.0
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°	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2	3669.2
2.5°	3652.0	3650.6	3653.4	3654.9	3666.4	3682.2	3689.4	3699.4	3705.2	3702.3
5°	3608.9	3611.8	3623.2	3631.9	3652.0	3677.9	3692.2	3703.7	3713.8	3709.5
7.5°	3572.9	3580.1	3597.4	3604.6	3616.1	3623.2	3621.8	3626.1	3634.7	3624.7
10°	3552.8	3561.4	3574.4	3564.3	3537.0	3498.2	3462.3	3443.6	3449.3	3442.2
12.5°	3532.7	3544.2	3534.1	3486.7	3410.5	3360.2	3332.9	3335.8	3348.7	3351.6
15°	3521.2	3525.5	3482.4	3393.3	3315.7	3308.5	3322.9	3320.0	3321.4	3321.4
17.5°	3521.2	3509.7	3429.2	3340.1	3307.1	3294.1	3249.6	3193.5	3169.1	3160.5
20°	3539.9	3509.7	3412.0	3353.0	3281.2	3170.5	3052.7	2949.2	2903.2	2890.3
22.5°	3595.9	3544.2	3460.8	3358.8	3154.7	2969.3	2782.5	2658.9	2575.5	2561.1
25°	3709.5	3652.0	3557.1	3282.6	2953.5	2689.1	2476.3	2338.4	2255.0	2243.5
27.5°	3907.8	3870.5	3608.9	3114.5	2686.2	2403.0	2206.1	2099.8	2038.0	2033.7
30°	4206.8	4188.1	3583.0	2865.8	2357.1	2125.7	2030.8	1969.0	1923.0	1921.6
32.5°	4683.9	4533.0	3498.2	2562.6	2056.7	1928.8	1890.0	1852.6	1816.7	1816.7
35°	5297.6	4811.8	3337.2	2237.8	1874.1	1819.5	1770.7	1711.7	1664.3	1661.4
37.5°	6019.1	4984.3	3048.4	1976.2	1787.9	1746.2	1674.4	1586.7	1503.3	1489.0
40°	6747.8	5036.0	2641.6	1815.2	1733.3	1672.9	1585.3	1481.8	1401.3	1397.0
42.5°	7416.1	4936.9	2210.5	1704.6	1678.7	1598.2	1506.2	1414.2	1351.0	1349.6
45°	7976.6	4679.6	1848.3	1599.6	1621.2	1530.6	1448.7	1374.0	1325.1	1315.1
47.5°	8504.1	4316.0	1593.9	1489.0	1563.7	1493.3	1424.3	1353.9	1306.4	1299.3
50°	9116.3	3923.6	1415.7	1381.2	1513.4	1480.3	1444.4	1371.1	1292.1	1283.4
52.5°	9857.9	3584.4	1276.3	1286.3	1474.6	1497.6	1496.2	1420.0	1282.0	1270.5
55°	10685.8	3207.9	1171.3	1208.7	1458.8	1529.2	1509.1	1466.0	1290.6	1273.4
57.5°	11500.7	2768.1	1098.0	1149.8	1435.8	1526.3	1447.3	1385.5	1310.8	1286.3
60°	12111.5	2177.4	1042.0	1098.0	1385.5	1478.9	1379.7	1297.8	1306.4	1287.8
62.5°	12151.8	1683.0	974.4	1053.5	1309.3	1431.5	1335.2	1259.0	1325.1	1307.9
65°	11437.5	1271.9	909.8	1000.3	1227.4	1401.3	1292.1	1237.5	1363.9	1345.2
67.5°	9629.4	1023.3	855.1	945.7	1145.5	1338.1	1253.3	1217.3	1398.4	1365.4
70°	6951.9	872.4	802.0	879.6	1072.2	1266.2	1218.8	1181.4	1305.0	1253.3
72.5°	4280.1	756.0	741.6	791.9	1016.1	1191.5	1167.0	1113.9	1175.7	1134.0
75°	2137.2	655.4	674.1	705.7	937.1	1106.7	1080.8	1027.6	1036.2	1027.6
77.5°	1023.3	560.5	595.0	619.4	835.0	1010.4	983.1	928.4	918.4	919.8
80°	648.2	468.5	501.6	518.8	745.9	898.3	871.0	816.3	931.3	863.8
82.5°	405.3	380.9	389.5	421.1	649.6	781.9	745.9	697.1	839.3	664.0
85°	224.2	265.9	277.4	304.7	500.2	653.9	618.0	556.2	498.7	490.1
87.5°	133.7	158.1	162.4	182.5	336.3	472.8	418.2	396.7	329.1	327.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)