

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: P299258

Luminaire Tested: **GLNA-AF-08-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299258
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-08-LED-E1-T3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 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: 30299.5 lumens
Efficiency: N/A
Efficacy: 117.9 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): 257
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

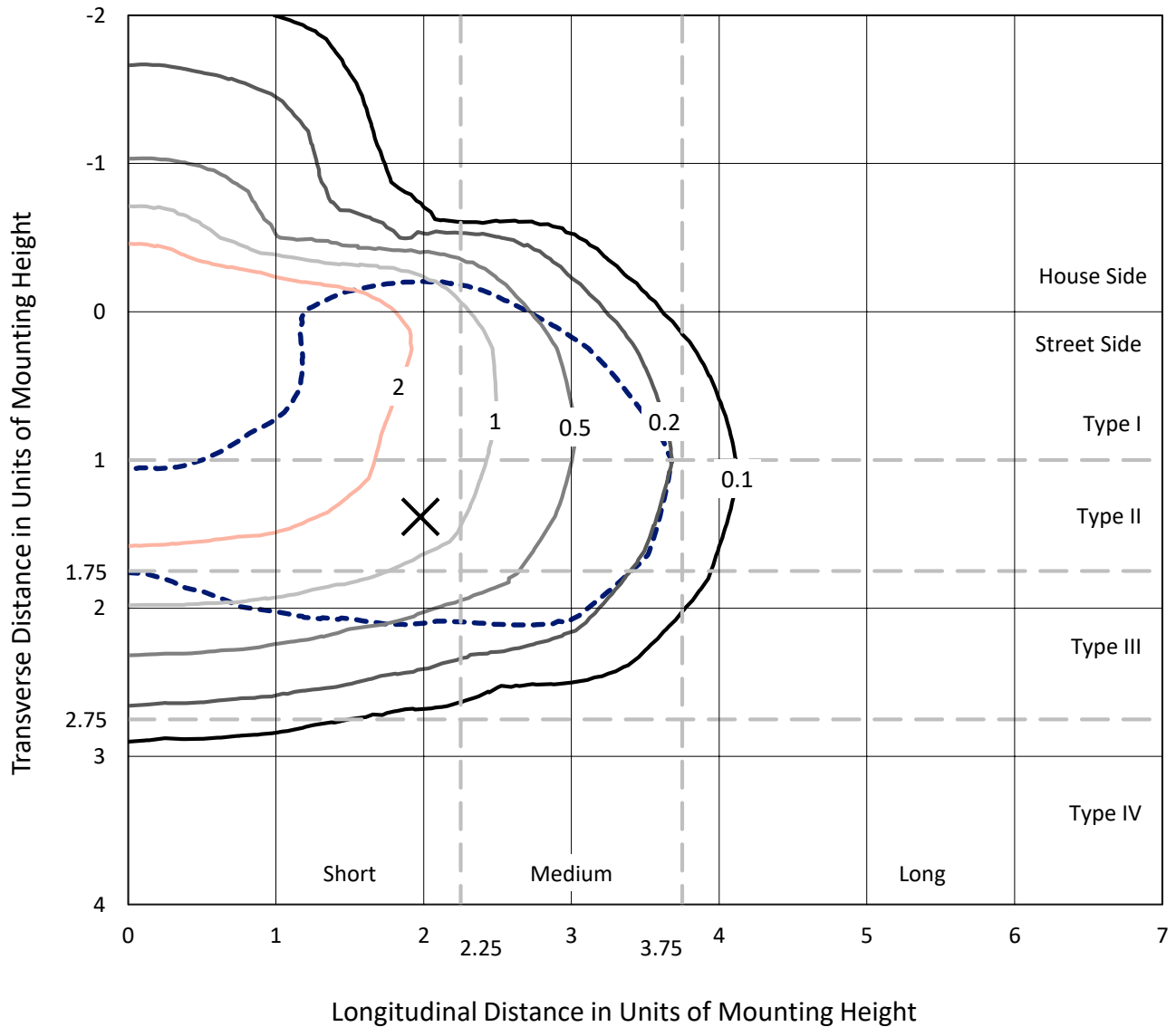


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

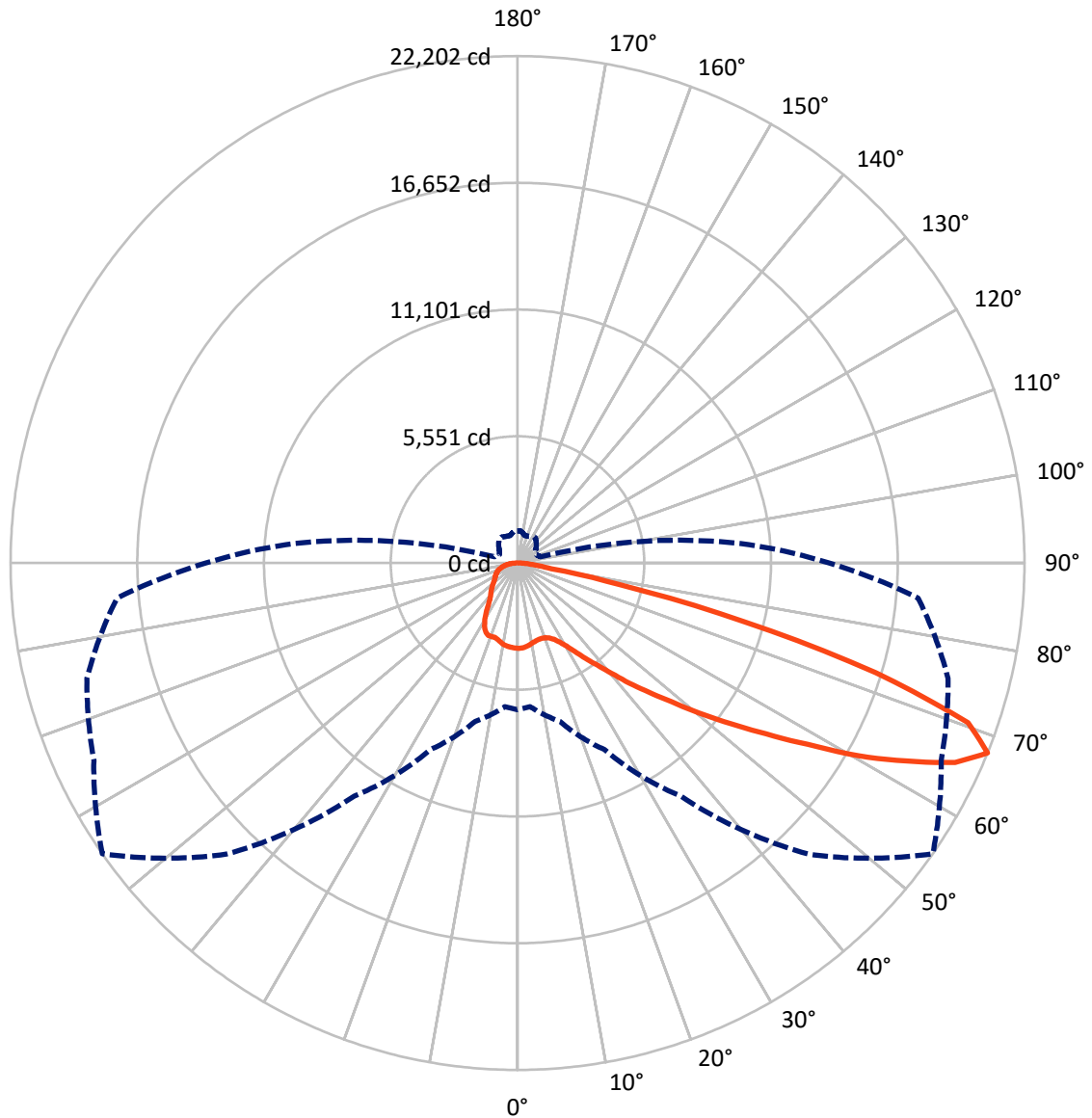


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

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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	6545.3	0.0	6545.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23754.2	0.0	23754.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	30299.5	0.0	30299.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	1.2
10°-20°	987.7	3.3
20°-30°	1654.5	5.5
30°-40°	2720.7	9.0
40°-50°	4579.8	15.1
50°-60°	7208.2	23.8
60°-70°	8602.3	28.4
70°-80°	3694.0	12.2
80°-90°	503.6	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°	30299.5	100.0
0°-180°	30299.5	100.0



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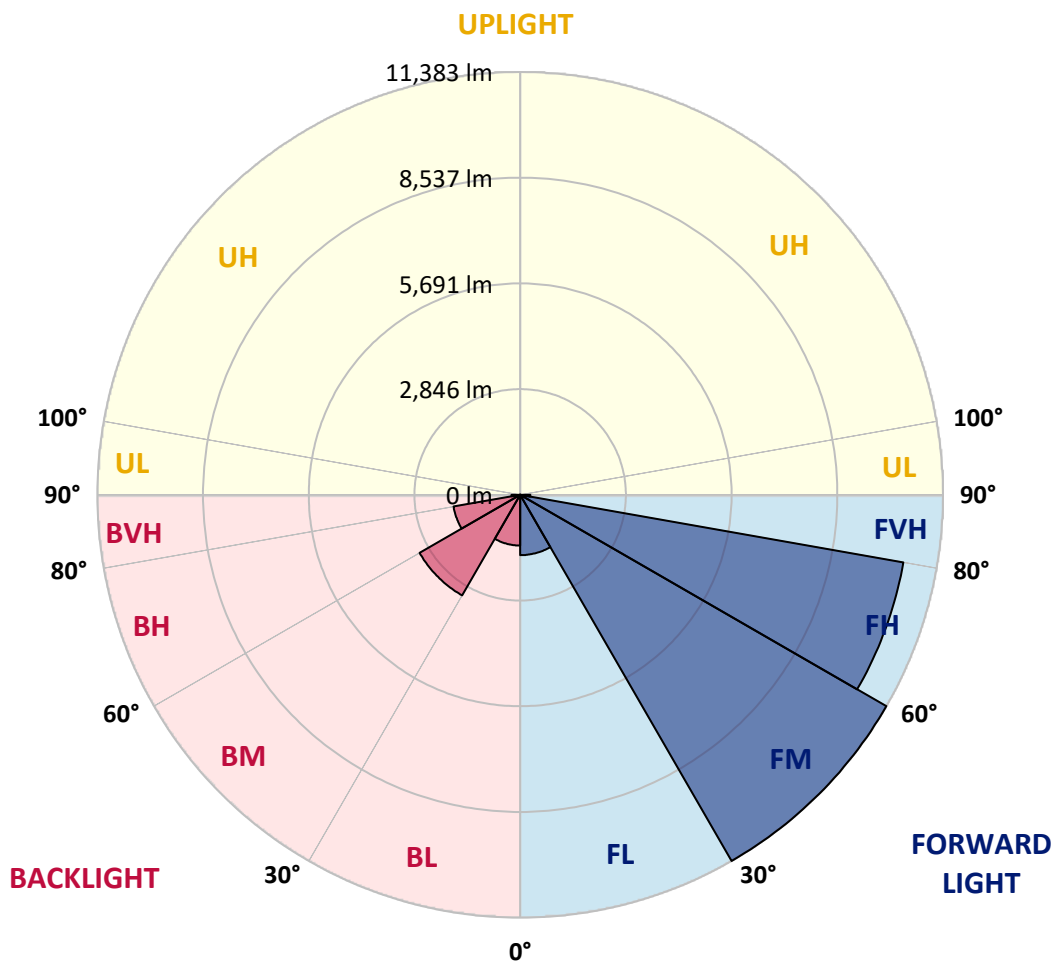
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.1	5.4			
FM	(30°-60°)	11382.7	37.6			
FH	(60°-80°)	10474.7	34.6			G4/12000
FVH	(80°-90°)	272.6	0.9			G3/500
BL	(0°-30°)	1366.8	4.5	B3/2500		
BM	(30°-60°)	3126.0	10.3	B3/5000		
BH	(60°-80°)	1821.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	231.0	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°	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3
2.5°	3704.1	3705.5	3708.5	3720.2	3730.4	3727.5	3728.9	3723.1	3721.6	3712.8	3721.6
5°	3657.2	3661.6	3663.1	3682.1	3693.8	3696.7	3692.4	3685.0	3676.3	3667.5	3671.9
7.5°	3550.4	3562.1	3563.6	3589.9	3608.9	3633.8	3635.3	3636.7	3632.4	3626.5	3635.3
10°	3483.1	3486.0	3484.5	3503.6	3518.2	3546.0	3562.1	3589.9	3601.6	3604.5	3610.4
12.5°	3478.7	3475.8	3471.4	3471.4	3467.0	3478.7	3508.0	3547.5	3575.3	3584.1	3591.4
15°	3525.5	3524.1	3509.4	3487.5	3459.7	3450.9	3475.8	3519.7	3556.3	3575.3	3582.6
17.5°	3630.9	3622.1	3598.7	3548.9	3488.9	3465.5	3468.4	3505.0	3547.5	3572.4	3579.7
20°	3824.1	3824.1	3774.3	3680.6	3573.8	3518.2	3491.9	3513.8	3554.8	3588.4	3598.7
22.5°	4157.7	4160.7	4077.2	3923.6	3743.6	3625.0	3559.2	3554.8	3603.1	3641.1	3652.8
25°	4630.4	4618.7	4501.7	4282.1	4008.5	3812.4	3698.2	3671.9	3712.8	3755.3	3769.9
27.5°	5180.7	5138.3	4999.2	4734.4	4380.2	4093.3	3917.7	3875.3	3914.8	3963.1	3977.7
30°	5725.1	5681.2	5515.8	5226.1	4832.4	4469.5	4217.7	4149.0	4204.6	4273.4	4282.1
32.5°	6269.5	6269.5	6085.1	5747.1	5318.3	4918.7	4617.3	4535.3	4627.5	4710.9	4730.0
35°	6920.8	6923.7	6745.2	6338.3	5877.3	5454.4	5122.2	5062.2	5201.2	5259.7	5305.1
37.5°	7721.3	7737.4	7507.6	7015.9	6511.0	6066.1	5671.0	5589.0	5728.1	5887.6	6033.9
40°	8586.2	8606.7	8353.5	7747.7	7242.8	6777.4	6350.0	6202.2	6433.4	6737.9	6926.6
42.5°	9411.6	9517.0	9272.6	8649.2	8106.2	7624.7	7191.5	6976.4	7266.2	7725.7	7889.6
45°	10604.4	10680.5	10254.6	9689.7	9178.9	8640.4	8066.7	7839.9	8245.2	8824.8	8858.4
47.5°	11399.0	11342.0	11125.4	10774.1	10450.7	9947.3	9083.8	8835.0	9373.6	10055.6	9866.8
50°	11822.0	11839.5	11810.3	11830.8	11842.5	11526.4	10330.7	9989.7	10632.2	11456.1	11021.5
52.5°	12217.1	12100.0	12196.6	12676.6	13256.2	13139.1	11687.3	11331.7	11981.5	13010.3	12242.0
55°	12208.3	12029.8	12344.4	13191.8	14448.9	14583.6	13210.8	12801.0	13408.4	14677.2	13535.7
57.5°	11776.6	11785.4	12269.8	13379.1	15280.2	15941.7	14978.7	14364.0	14921.6	16366.1	14716.7
60°	11182.4	11262.9	11961.0	13348.4	15946.1	17055.4	17147.6	16048.5	16404.1	17901.3	15694.3
62.5°	10223.9	10308.7	11271.7	13029.3	15845.1	18128.1	19108.6	17959.8	17953.9	18832.0	15981.2
65°	8712.1	8687.2	9698.5	11836.6	14997.7	18921.3	21056.5	19612.1	19121.8	18846.7	15404.6
67.5°	6424.7	6313.4	7181.3	9015.0	12465.9	18033.0	22202.4	20472.6	19519.9	17607.1	13642.5
70°	3333.8	3222.6	3925.0	5264.1	8198.4	14074.3	20933.6	20027.7	18640.3	14759.2	10687.8
72.5°	1425.4	1406.4	1691.8	2309.4	3966.0	8117.9	16414.4	17334.9	15994.4	10996.6	7348.1
75°	958.6	952.7	1059.6	1258.6	1784.0	3294.3	10272.2	12304.9	11702.0	6818.3	4132.9
77.5°	752.2	744.9	807.8	904.4	1156.1	1299.6	4558.7	6606.1	6114.4	2967.9	1808.9
80°	588.3	582.5	622.0	674.7	831.3	819.5	1500.1	2628.4	2034.2	1137.1	879.6
82.5°	463.9	463.9	496.1	497.6	589.8	559.0	783.0	1157.6	1015.7	663.0	538.6
85°	424.4	424.4	458.1	371.7	384.9	352.7	485.9	686.4	643.9	272.2	234.2
87.5°	213.7	207.8	384.9	329.3	209.3	187.3	237.1	332.2	357.1	150.7	117.1
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°	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3	3736.3
2.5°	3718.7	3717.2	3720.2	3721.6	3733.3	3749.4	3756.7	3767.0	3772.8	3769.9
5°	3674.8	3677.7	3689.4	3698.2	3718.7	3745.0	3759.7	3771.4	3781.6	3777.2
7.5°	3638.2	3645.5	3663.1	3670.4	3682.1	3689.4	3688.0	3692.4	3701.1	3690.9
10°	3617.7	3626.5	3639.7	3629.4	3601.6	3562.1	3525.5	3506.5	3512.3	3505.0
12.5°	3597.2	3608.9	3598.7	3550.4	3472.8	3421.6	3393.8	3396.7	3409.9	3412.8
15°	3585.5	3589.9	3546.0	3455.3	3376.2	3368.9	3383.6	3380.6	3382.1	3382.1
17.5°	3585.5	3573.8	3491.9	3401.1	3367.5	3354.3	3308.9	3251.8	3227.0	3218.2
20°	3604.5	3573.8	3474.3	3414.3	3341.1	3228.4	3108.4	3003.1	2956.2	2943.1
22.5°	3661.6	3608.9	3524.1	3420.1	3212.3	3023.5	2833.3	2707.4	2622.6	2607.9
25°	3777.2	3718.7	3622.1	3342.6	3007.4	2738.2	2521.6	2381.1	2296.2	2284.5
27.5°	3979.2	3941.1	3674.8	3171.4	2735.2	2446.9	2246.4	2138.1	2075.2	2070.8
30°	4283.6	4264.6	3648.5	2918.2	2400.1	2164.5	2067.9	2005.0	1958.1	1956.7
32.5°	4769.5	4615.8	3562.1	2609.4	2094.2	1964.0	1924.5	1886.4	1849.8	1849.8
35°	5394.4	4899.7	3398.2	2278.6	1908.4	1852.8	1803.0	1743.0	1694.7	1691.8
37.5°	6129.0	5075.3	3104.0	2012.3	1820.6	1778.1	1705.0	1615.7	1530.8	1516.2
40°	6871.0	5128.0	2689.9	1848.4	1765.0	1703.5	1614.2	1508.8	1426.9	1422.5
42.5°	7551.5	5027.0	2250.8	1735.7	1709.3	1627.4	1533.7	1440.1	1375.7	1374.2
45°	8122.3	4765.1	1882.0	1628.9	1650.8	1558.6	1475.2	1399.1	1349.3	1339.1
47.5°	8659.4	4394.8	1623.0	1516.2	1592.3	1520.6	1450.3	1378.6	1330.3	1323.0
50°	9282.8	3995.3	1441.5	1406.4	1541.0	1507.4	1470.8	1396.2	1315.7	1306.9
52.5°	10038.0	3649.9	1299.6	1309.8	1501.5	1524.9	1523.5	1445.9	1305.4	1293.7
55°	10881.0	3266.5	1192.7	1230.8	1485.4	1557.1	1536.7	1492.7	1314.2	1296.6
57.5°	11710.8	2818.7	1118.1	1170.8	1462.0	1554.2	1473.7	1410.8	1334.7	1309.8
60°	12332.7	2217.2	1061.0	1118.1	1410.8	1505.9	1404.9	1321.5	1330.3	1311.3
62.5°	12373.7	1713.7	992.2	1072.7	1333.2	1457.6	1359.6	1282.0	1349.3	1331.8
65°	11646.4	1295.2	926.4	1018.6	1249.8	1426.9	1315.7	1260.1	1388.8	1369.8
67.5°	9805.3	1042.0	870.8	963.0	1166.4	1362.5	1276.2	1239.6	1424.0	1390.3
70°	7078.8	888.3	816.6	895.6	1091.8	1289.3	1241.0	1203.0	1328.8	1276.2
72.5°	4358.2	769.8	755.2	806.4	1034.7	1213.2	1188.3	1134.2	1197.1	1154.7
75°	2176.2	667.3	686.4	718.6	954.2	1126.9	1100.5	1046.4	1055.2	1046.4
77.5°	1042.0	570.8	605.9	630.8	850.3	1028.8	1001.0	945.4	935.2	936.6
80°	660.0	477.1	510.8	528.3	759.5	914.7	886.9	831.3	948.3	879.6
82.5°	412.7	387.8	396.6	428.8	661.5	796.1	759.5	709.8	854.7	676.1
85°	228.3	270.7	282.5	310.3	509.3	665.9	629.3	566.4	507.8	499.0
87.5°	136.1	161.0	165.4	185.9	342.5	481.5	425.9	403.9	335.1	333.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)