

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: P191453

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191453
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30438.9 lumens
Efficiency: N/A
Efficacy: 109.1 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

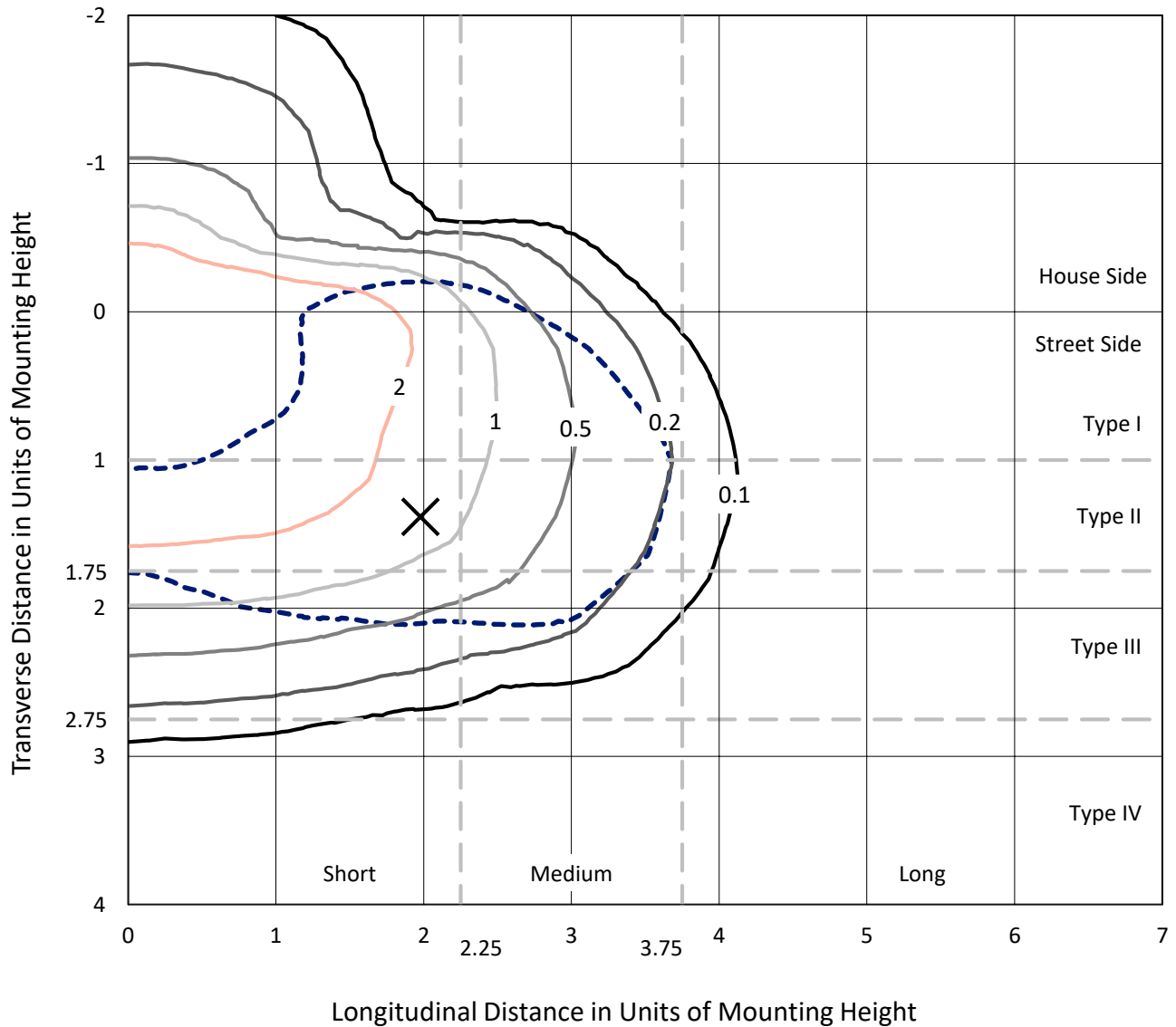


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

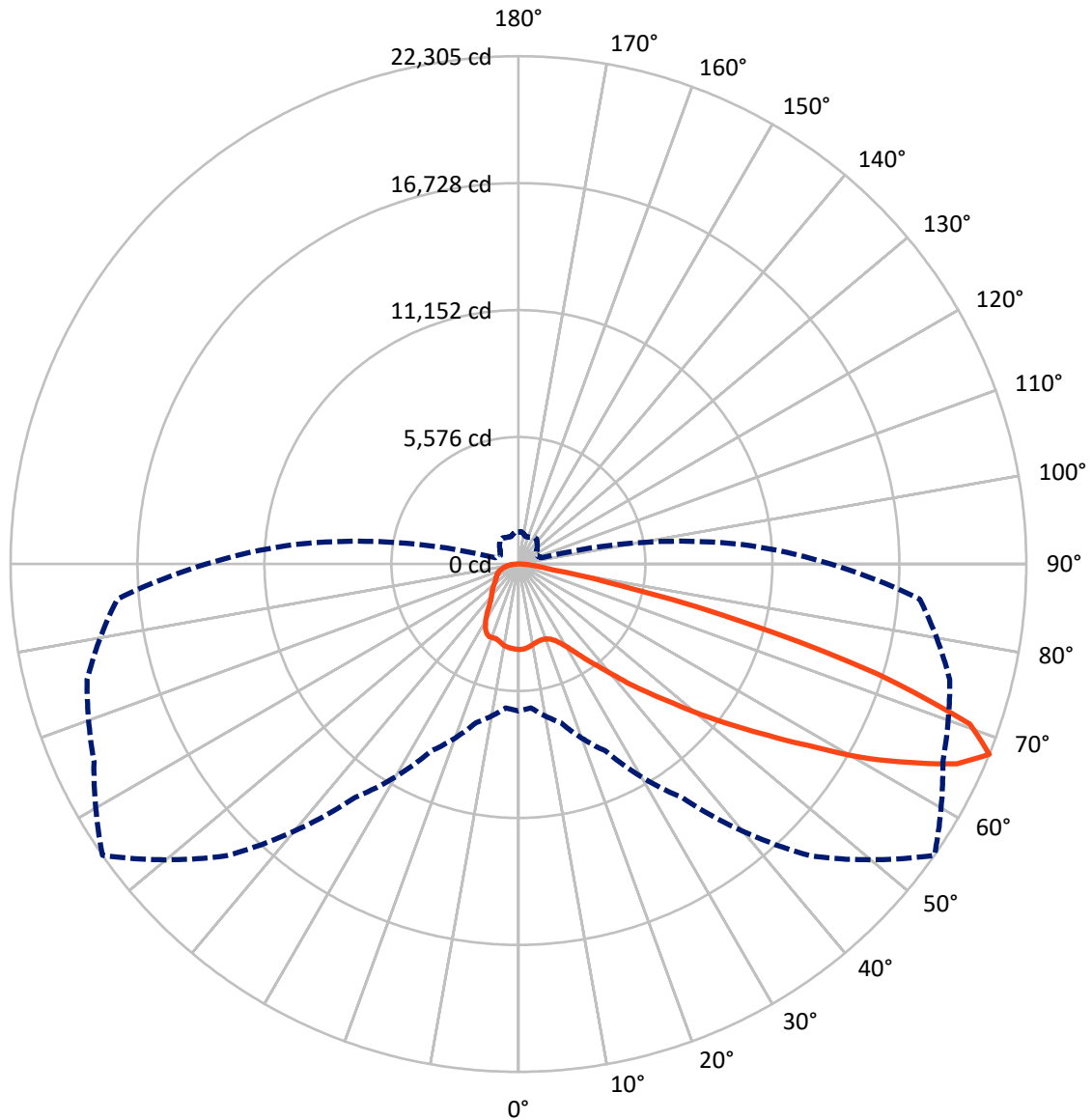


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

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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	6575.5	0.0	6575.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23863.5	0.0	23863.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	30438.9	0.0	30438.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.3	1.2
10°-20°	992.2	3.3
20°-30°	1662.1	5.5
30°-40°	2733.2	9.0
40°-50°	4600.9	15.1
50°-60°	7241.4	23.8
60°-70°	8641.8	28.4
70°-80°	3711.0	12.2
80°-90°	506.0	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°	30438.9	100.0
0°-180°	30438.9	100.0



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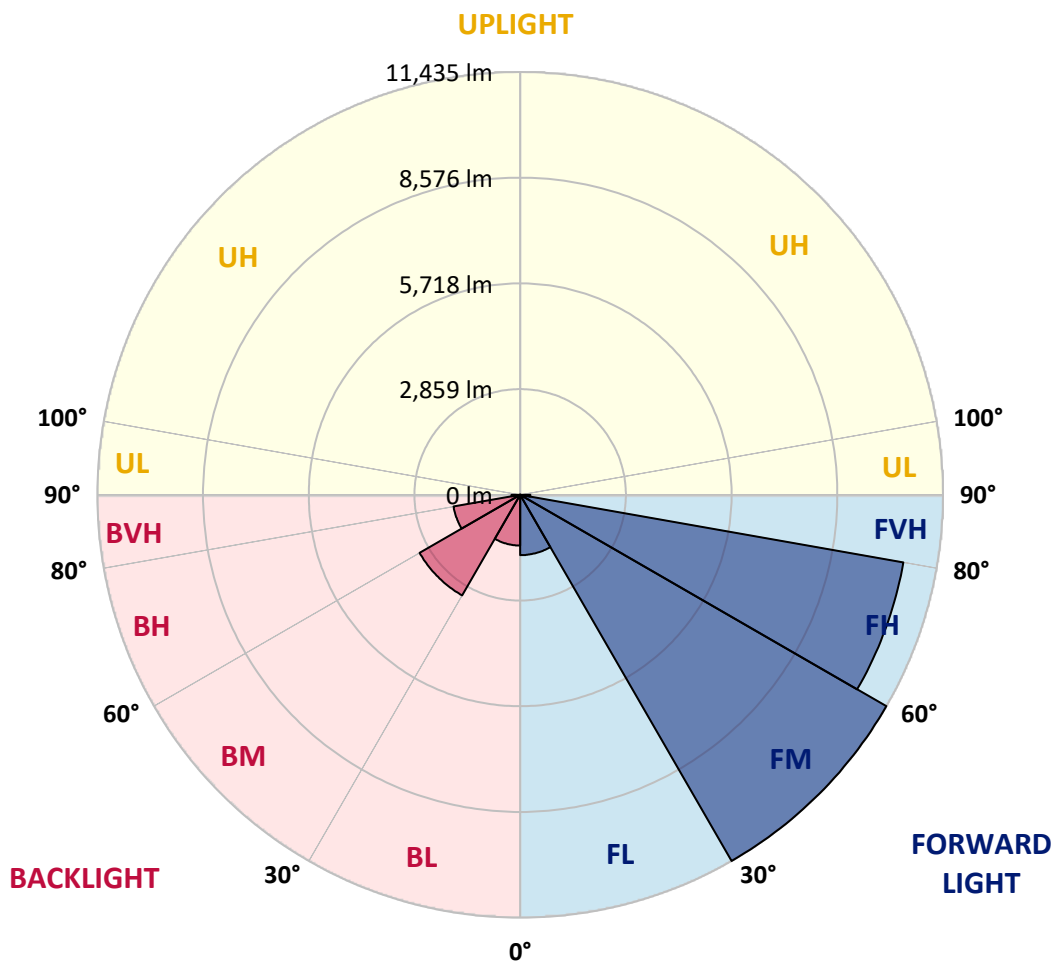
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1631.6	5.4			
FM	(30°-60°)	11435.1	37.6			
FH	(60°-80°)	10522.9	34.6			G4/12000
FVH	(80°-90°)	273.9	0.9			G3/500
BL	(0°-30°)	1373.1	4.5	B3/2500		
BM	(30°-60°)	3140.4	10.3	B3/5000		
BH	(60°-80°)	1829.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	232.1	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°	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4
2.5°	3721.1	3722.6	3725.5	3737.2	3747.6	3744.6	3746.1	3740.2	3738.8	3729.9	3738.8
5°	3674.0	3678.4	3680.0	3699.1	3710.9	3713.7	3709.3	3702.0	3693.2	3684.4	3688.8
7.5°	3566.7	3578.5	3579.9	3606.4	3625.5	3650.5	3652.0	3653.5	3649.1	3643.1	3652.0
10°	3499.1	3502.1	3500.5	3519.7	3534.4	3562.3	3578.5	3606.4	3618.2	3621.1	3627.0
12.5°	3494.7	3491.7	3487.3	3487.3	3482.9	3494.7	3524.1	3563.8	3591.7	3600.6	3607.9
15°	3541.8	3540.2	3525.6	3503.5	3475.6	3466.8	3491.7	3535.8	3572.7	3591.7	3599.0
17.5°	3647.6	3638.7	3615.2	3565.3	3504.9	3481.5	3484.4	3521.2	3563.8	3588.8	3596.2
20°	3841.7	3841.7	3791.7	3697.6	3590.3	3534.4	3507.9	3530.0	3571.1	3605.0	3615.2
22.5°	4176.9	4179.8	4096.0	3941.6	3760.8	3641.7	3575.5	3571.1	3619.7	3657.9	3669.6
25°	4651.8	4640.0	4522.4	4301.8	4026.9	3829.9	3715.3	3688.8	3729.9	3772.5	3787.3
27.5°	5204.6	5161.9	5022.3	4756.1	4400.3	4112.2	3935.8	3893.1	3932.8	3981.3	3996.1
30°	5751.4	5707.3	5541.2	5250.1	4854.6	4490.0	4237.2	4168.0	4224.0	4293.0	4301.8
32.5°	6298.4	6298.4	6113.2	5773.5	5342.8	4941.4	4638.6	4556.2	4648.8	4732.6	4751.7
35°	6952.6	6955.6	6776.2	6367.5	5904.4	5479.4	5145.7	5085.5	5225.1	5284.0	5329.5
37.5°	7756.8	7773.0	7542.2	7048.2	6541.0	6094.0	5697.1	5614.8	5754.4	5914.7	6061.7
40°	8625.7	8646.3	8392.0	7783.3	7276.0	6808.6	6379.2	6230.8	6463.0	6768.9	6958.5
42.5°	9454.9	9560.8	9315.3	8688.9	8143.5	7659.9	7224.6	7008.5	7299.6	7761.2	7925.9
45°	10653.1	10729.6	10301.7	9734.3	9221.2	8680.1	8103.8	7875.9	8283.1	8865.4	8899.2
47.5°	11451.5	11394.1	11176.6	10823.7	10498.7	9993.0	9125.6	8875.6	9416.7	10101.8	9912.2
50°	11876.4	11894.1	11864.6	11885.2	11896.9	11579.4	10378.2	10035.7	10681.1	11508.8	11072.2
52.5°	12273.4	12155.7	12252.7	12735.0	13317.2	13199.5	11741.1	11383.8	12036.7	13070.1	12298.3
55°	12264.5	12085.1	12401.2	13252.5	14515.4	14650.7	13271.6	12859.9	13470.1	14744.7	13598.0
57.5°	11830.8	11839.6	12326.3	13440.7	15350.5	16015.0	15047.6	14430.2	14990.3	16441.4	14784.5
60°	11233.8	11314.8	12016.1	13409.8	16019.4	17133.8	17226.5	16122.3	16479.6	17983.7	15766.5
62.5°	10270.9	10356.1	11323.6	13089.3	15918.0	18211.5	19196.6	18042.4	18036.6	18918.7	16054.7
65°	8752.2	8727.2	9743.1	11891.1	15066.7	19008.4	21153.4	19702.3	19209.8	18933.4	15475.4
67.5°	6454.2	6342.5	7214.4	9056.5	12523.3	18115.9	22304.6	20566.8	19609.7	17688.1	13705.3
70°	3349.1	3237.4	3943.1	5288.3	8236.1	14139.0	21029.9	20119.8	18726.1	14827.1	10737.0
72.5°	1432.0	1412.9	1699.5	2320.0	3984.3	8155.3	16489.9	17414.7	16068.0	11047.2	7381.9
75°	963.0	957.1	1064.5	1264.4	1792.2	3309.5	10319.4	12361.5	11755.9	6849.7	4151.9
77.5°	755.7	748.3	811.5	908.6	1161.5	1305.6	4579.8	6636.5	6142.5	2981.6	1817.2
80°	591.1	585.1	624.8	677.8	835.0	823.3	1507.0	2640.5	2043.5	1142.3	883.6
82.5°	466.1	466.1	498.4	499.9	592.5	561.6	786.5	1162.9	1020.3	666.0	541.0
85°	426.4	426.4	460.2	373.5	386.7	354.4	488.2	689.6	646.9	273.4	235.3
87.5°	214.6	208.8	386.7	330.8	210.2	188.2	238.1	333.8	358.7	151.4	117.6
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°	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4	3753.4
2.5°	3735.8	3734.4	3737.2	3738.8	3750.5	3766.7	3774.1	3784.3	3790.2	3787.3
5°	3691.7	3694.7	3706.4	3715.3	3735.8	3762.3	3776.9	3788.7	3799.0	3794.6
7.5°	3654.9	3662.3	3680.0	3687.3	3699.1	3706.4	3704.9	3709.3	3718.1	3707.9
10°	3634.3	3643.1	3656.4	3646.1	3618.2	3578.5	3541.8	3522.6	3528.5	3521.2
12.5°	3613.8	3625.5	3615.2	3566.7	3488.8	3437.3	3409.4	3412.4	3425.6	3428.5
15°	3602.0	3606.4	3562.3	3471.2	3391.8	3384.4	3399.2	3396.2	3397.6	3397.6
17.5°	3602.0	3590.3	3507.9	3416.8	3383.0	3369.7	3324.2	3266.8	3241.8	3233.0
20°	3621.1	3590.3	3490.3	3430.0	3356.5	3243.3	3122.8	3016.9	2969.8	2956.6
22.5°	3678.4	3625.5	3540.2	3435.9	3227.1	3037.4	2846.4	2719.9	2634.6	2619.9
25°	3794.6	3735.8	3638.7	3357.9	3021.3	2750.8	2533.1	2392.1	2306.8	2295.0
27.5°	3997.5	3959.3	3691.7	3186.0	2747.9	2458.2	2256.7	2148.0	2084.8	2080.4
30°	4303.3	4284.2	3665.2	2931.6	2411.2	2174.5	2077.4	2014.2	1967.1	1965.7
32.5°	4791.4	4637.0	3578.5	2621.4	2103.9	1973.1	1933.4	1895.1	1858.4	1858.4
35°	5419.2	4922.2	3413.8	2289.2	1917.1	1861.3	1811.3	1751.0	1702.5	1699.5
37.5°	6157.2	5098.7	3118.4	2021.6	1828.9	1786.3	1712.8	1623.1	1537.8	1523.2
40°	6902.7	5151.6	2702.2	1856.9	1773.1	1711.3	1621.7	1515.8	1433.5	1429.1
42.5°	7586.3	5050.2	2261.2	1743.7	1717.2	1634.9	1540.8	1446.7	1382.0	1380.6
45°	8159.7	4787.0	1890.7	1636.3	1658.4	1565.7	1481.9	1405.5	1355.5	1345.3
47.5°	8699.3	4415.1	1630.5	1523.2	1599.6	1527.6	1457.0	1385.0	1336.4	1329.1
50°	9325.5	4013.6	1448.2	1412.9	1548.1	1514.3	1477.6	1402.6	1321.8	1312.9
52.5°	10084.1	3666.7	1305.6	1315.8	1508.4	1532.0	1530.5	1452.6	1311.4	1299.7
55°	10931.0	3281.5	1198.2	1236.4	1492.3	1564.3	1543.7	1499.6	1320.2	1302.6
57.5°	11764.7	2831.6	1123.2	1176.2	1468.8	1561.3	1480.5	1417.3	1340.9	1315.8
60°	12389.5	2227.4	1065.9	1123.2	1417.3	1512.8	1411.4	1327.6	1336.4	1317.4
62.5°	12430.7	1721.6	996.8	1077.7	1339.3	1464.4	1365.8	1287.9	1355.5	1337.9
65°	11700.0	1301.1	930.7	1023.3	1255.6	1433.5	1321.8	1265.9	1395.2	1376.1
67.5°	9850.4	1046.8	874.7	967.4	1171.8	1368.8	1282.1	1245.2	1430.5	1396.7
70°	7111.5	892.4	820.4	899.8	1096.8	1295.3	1246.8	1208.5	1335.0	1282.1
72.5°	4378.3	773.4	758.6	810.1	1039.4	1218.8	1193.8	1139.5	1202.7	1160.0
75°	2186.3	670.4	689.6	721.9	958.6	1132.1	1105.6	1051.2	1060.0	1051.2
77.5°	1046.8	573.4	608.7	633.6	854.2	1033.6	1005.7	949.7	939.5	940.9
80°	663.1	479.3	513.1	530.7	763.0	918.9	891.0	835.0	952.7	883.6
82.5°	414.6	389.6	398.4	430.8	664.5	799.8	763.0	713.1	858.6	679.2
85°	229.3	272.0	283.8	311.7	511.7	668.9	632.2	569.0	510.1	501.3
87.5°	136.8	161.7	166.1	186.7	344.0	483.7	427.8	405.8	336.7	335.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)