

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: P269746

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269746
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-T3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33733.5 lumens
Efficiency: N/A
Efficacy: 104.4 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

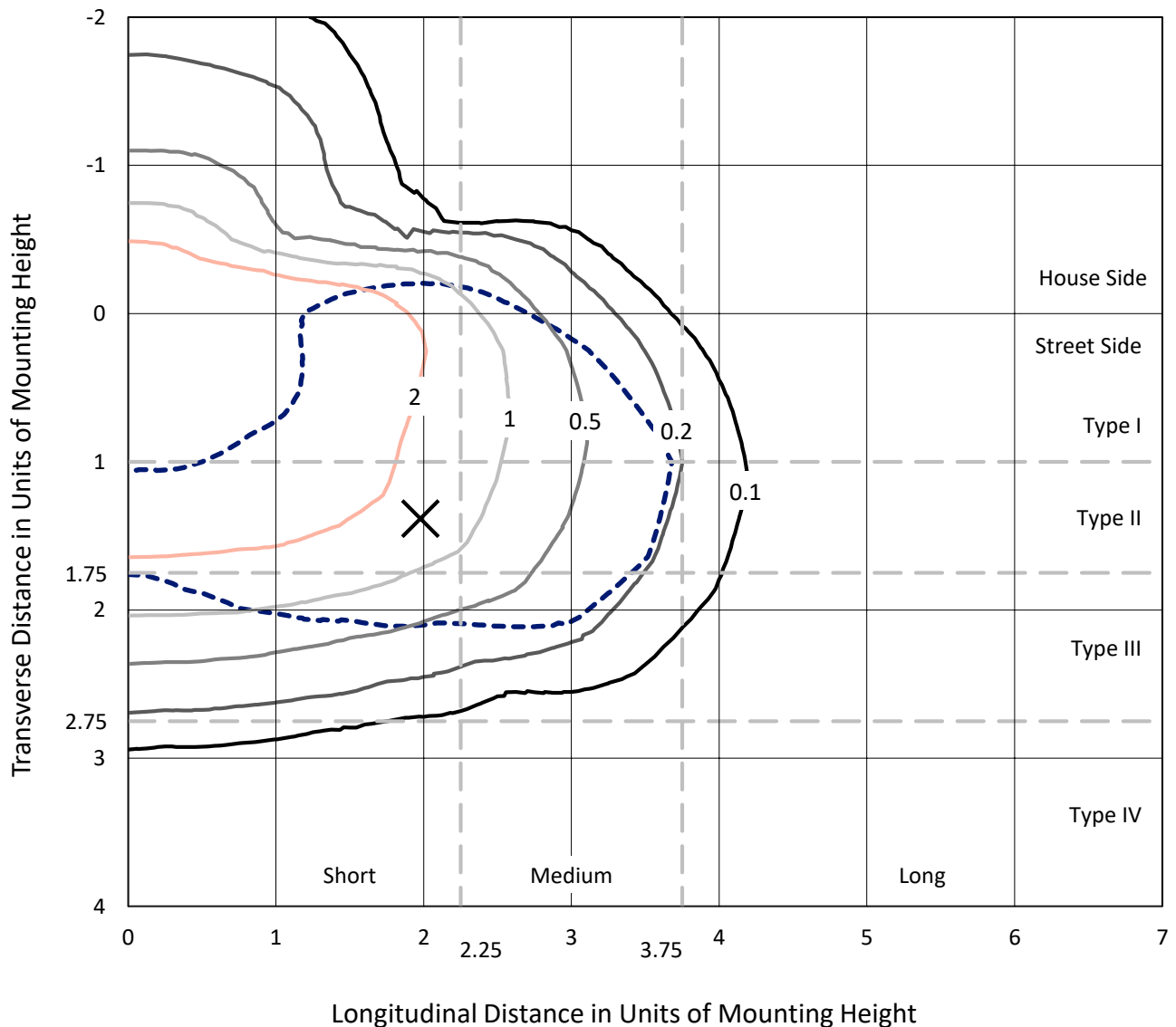
Input Watts (W): 323
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

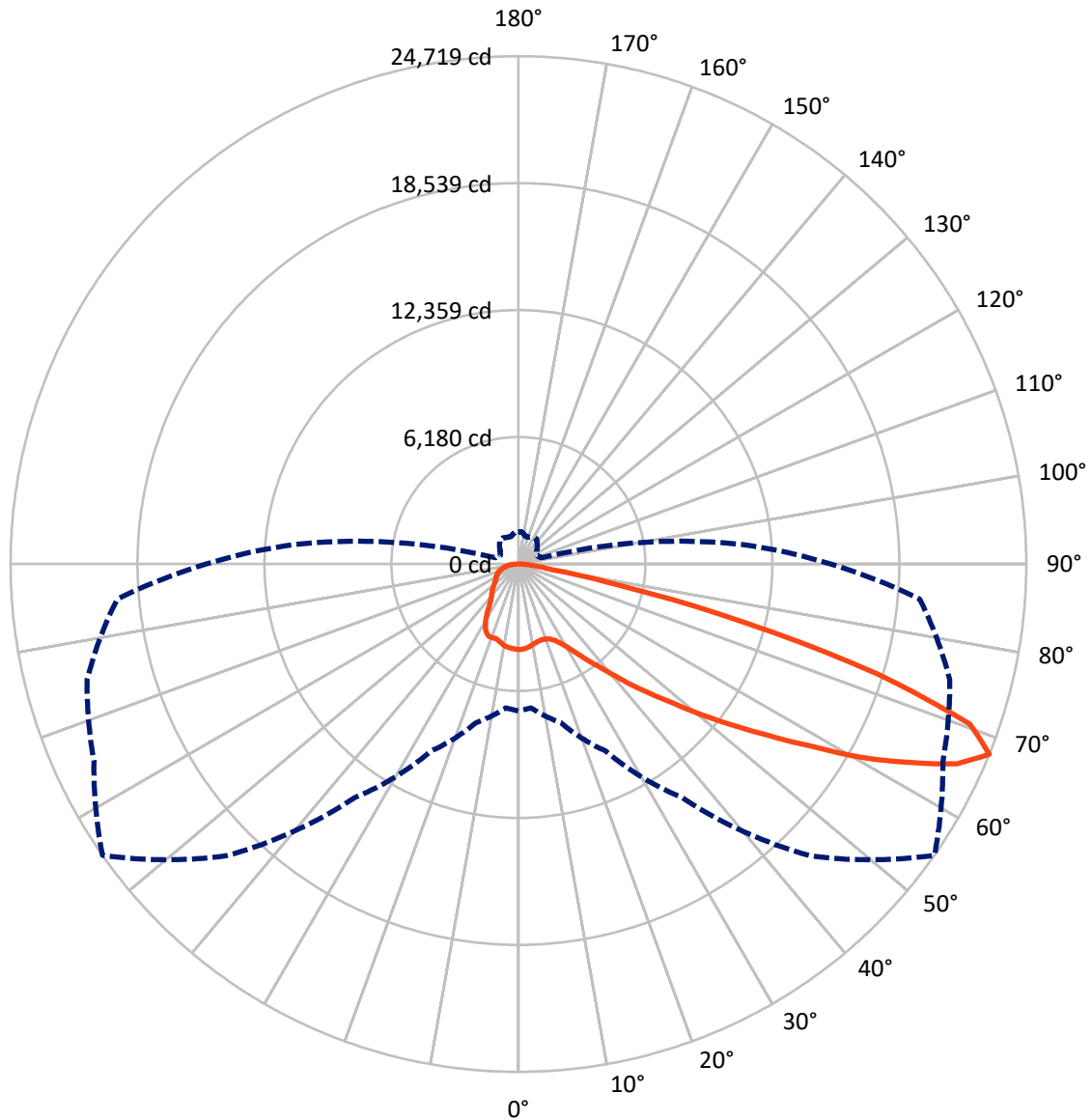


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Full Cutoff

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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	7287.2	0.0	7287.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26446.3	0.0	26446.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	33733.5	0.0	33733.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	1.2
10°-20°	1099.6	3.3
20°-30°	1842.0	5.5
30°-40°	3029.1	9.0
40°-50°	5098.8	15.1
50°-60°	8025.2	23.8
60°-70°	9577.2	28.4
70°-80°	4112.6	12.2
80°-90°	560.7	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°	33733.5	100.0
0°-180°	33733.5	100.0



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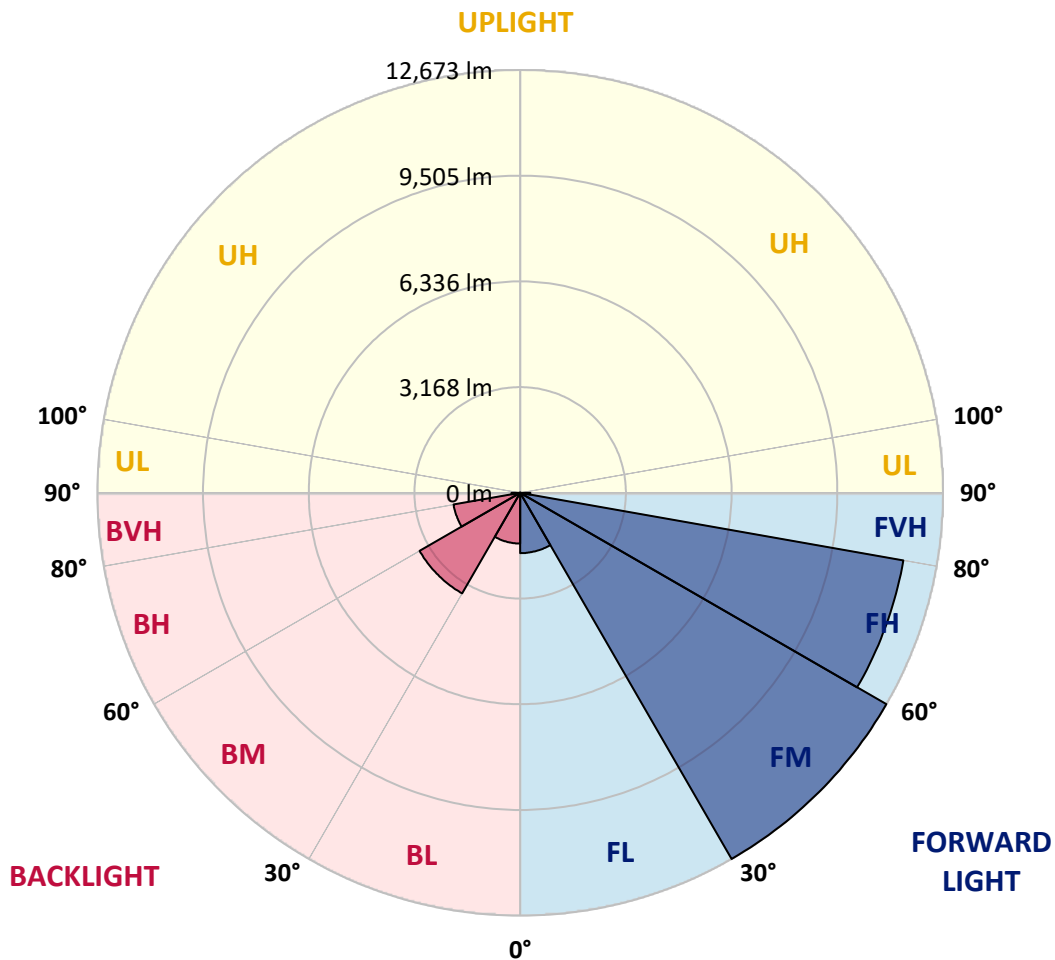
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.2	5.4			
FM	(30°-60°)	12672.8	37.6			
FH	(60°-80°)	11661.8	34.6			G4/12000
FVH	(80°-90°)	303.5	0.9			G3/500
BL	(0°-30°)	1521.7	4.5	B3/2500		
BM	(30°-60°)	3480.3	10.3	B3/5000		
BH	(60°-80°)	2028.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	257.2	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°	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7
2.5°	4123.8	4125.5	4128.8	4141.7	4153.3	4149.9	4151.5	4145.0	4143.4	4133.6	4143.4
5°	4071.7	4076.6	4078.2	4099.4	4112.5	4115.8	4110.9	4102.6	4092.9	4083.2	4088.0
7.5°	3952.8	3965.7	3967.5	3996.7	4017.9	4045.6	4047.4	4048.9	4044.0	4037.5	4047.4
10°	3877.9	3881.0	3879.5	3900.6	3916.9	3948.0	3965.7	3996.7	4009.9	4013.1	4019.6
12.5°	3873.0	3869.7	3864.8	3864.8	3859.8	3873.0	3905.6	3949.5	3980.5	3990.2	3998.4
15°	3925.1	3923.4	3907.2	3882.7	3851.8	3842.1	3869.7	3918.5	3959.3	3980.5	3988.7
17.5°	4042.5	4032.6	4006.5	3951.1	3884.4	3858.3	3861.5	3902.2	3949.5	3977.2	3985.4
20°	4257.4	4257.4	4202.1	4097.8	3978.9	3916.9	3887.7	3912.1	3957.7	3995.1	4006.5
22.5°	4629.0	4632.2	4539.3	4368.3	4167.9	4035.8	3962.6	3957.7	4011.4	4053.8	4066.8
25°	5155.3	5142.2	5011.9	4767.5	4462.8	4244.4	4117.3	4088.0	4133.6	4180.9	4197.2
27.5°	5767.8	5720.6	5565.8	5271.0	4876.5	4557.3	4361.7	4314.5	4358.4	4412.3	4428.6
30°	6374.1	6325.1	6141.1	5818.4	5380.0	4976.0	4695.8	4619.2	4681.1	4757.7	4767.5
32.5°	6980.1	6980.1	6774.7	6398.4	5921.0	5476.2	5140.6	5049.4	5152.0	5244.8	5266.0
35°	7705.1	7708.4	7509.7	7056.6	6543.4	6072.5	5702.7	5635.8	5790.7	5855.8	5906.4
37.5°	8596.4	8614.3	8358.5	7811.0	7249.0	6753.6	6313.6	6222.5	6377.2	6554.8	6717.7
40°	9559.4	9582.2	9300.3	8625.7	8063.6	7545.6	7069.8	6905.1	7162.5	7501.4	7711.7
42.5°	10478.3	10595.6	10323.5	9629.4	9024.9	8488.9	8006.7	7767.0	8089.6	8601.4	8783.7
45°	11806.2	11891.0	11416.7	10787.8	10219.3	9619.6	8981.0	8728.4	9179.7	9824.9	9862.4
47.5°	12691.0	12627.5	12386.3	11995.2	11635.1	11074.7	10113.3	9836.4	10435.9	11195.1	10985.1
50°	13161.8	13181.4	13148.9	13171.6	13184.7	12832.6	11501.4	11121.8	11837.1	12754.5	12270.6
52.5°	13601.7	13471.4	13578.9	14113.5	14758.6	14628.2	13011.9	12615.9	13339.4	14484.9	13629.4
55°	13592.0	13393.2	13743.4	14686.8	16086.5	16236.3	14708.0	14251.9	14928.0	16340.7	15069.7
57.5°	13111.3	13121.2	13660.4	14895.4	17011.9	17748.4	16676.3	15991.9	16612.7	18221.0	16384.6
60°	12449.8	12539.4	13316.7	14861.2	17753.4	18988.4	19091.0	17867.4	18263.4	19930.2	17473.0
62.5°	11382.7	11477.0	12549.2	14506.0	17640.8	20182.7	21274.3	19995.4	19988.7	20966.4	17792.4
65°	9699.4	9671.8	10797.6	13178.1	16697.4	21065.8	23443.0	21834.8	21289.0	20982.7	17150.5
67.5°	7152.8	7029.0	7995.2	10036.8	13878.8	20076.8	24718.8	22792.9	21732.2	19602.6	15188.7
70°	3711.6	3587.8	4369.9	5860.7	9127.6	15669.3	23306.2	22297.5	20753.0	16431.9	11899.0
72.5°	1586.9	1565.7	1883.6	2571.0	4415.4	9037.9	18274.7	19299.5	17807.1	12242.9	8181.0
75°	1067.2	1060.7	1179.7	1401.3	1986.2	3667.7	11436.3	13699.5	13028.2	7591.0	4601.3
77.5°	837.5	829.3	899.5	1006.9	1287.2	1446.9	5075.5	7354.9	6807.4	3304.3	2013.9
80°	655.0	648.4	692.5	751.2	925.4	912.4	1670.0	2926.3	2264.7	1266.0	979.2
82.5°	516.4	516.4	552.4	554.0	656.7	622.4	871.6	1288.8	1130.7	738.0	599.6
85°	472.5	472.5	510.0	413.8	428.5	392.6	540.9	764.2	716.8	303.1	260.7
87.5°	238.0	231.4	428.5	366.6	233.0	208.5	263.9	369.8	397.6	167.9	130.3
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°	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7
2.5°	4140.2	4138.5	4141.7	4143.4	4156.5	4174.3	4182.5	4193.9	4200.5	4197.2
5°	4091.3	4094.6	4107.6	4117.3	4140.2	4169.6	4185.8	4198.8	4210.3	4205.3
7.5°	4050.5	4058.7	4078.2	4086.4	4099.4	4107.6	4106.0	4110.9	4120.6	4109.1
10°	4027.7	4037.5	4052.2	4040.8	4009.9	3965.7	3925.1	3903.9	3910.4	3902.2
12.5°	4005.0	4017.9	4006.5	3952.8	3866.5	3809.4	3778.5	3781.8	3796.3	3799.7
15°	3991.9	3996.7	3948.0	3846.9	3758.9	3750.8	3767.0	3763.8	3765.4	3765.4
17.5°	3991.9	3978.9	3887.7	3786.5	3749.2	3734.4	3683.9	3620.3	3592.7	3582.9
20°	4013.1	3978.9	3868.0	3801.3	3719.8	3594.3	3460.7	3343.4	3291.3	3276.6
22.5°	4076.6	4017.9	3923.4	3807.7	3576.4	3366.2	3154.4	3014.4	2919.9	2903.5
25°	4205.3	4140.2	4032.6	3721.4	3348.3	3048.5	2807.4	2651.0	2556.4	2543.5
27.5°	4430.3	4387.9	4091.3	3530.8	3045.3	2724.3	2501.1	2380.5	2310.4	2305.5
30°	4769.1	4747.9	4062.0	3248.9	2672.1	2409.9	2302.3	2232.2	2180.0	2178.4
32.5°	5310.1	5138.9	3965.7	2905.1	2331.6	2186.6	2142.5	2100.1	2059.5	2059.5
35°	6005.8	5455.0	3783.3	2537.0	2124.8	2062.8	2007.4	1940.6	1886.8	1883.6
37.5°	6823.6	5650.6	3455.8	2240.4	2026.8	1979.7	1898.2	1798.8	1704.3	1687.9
40°	7649.7	5709.2	2994.7	2057.8	1965.0	1896.5	1797.1	1679.8	1588.7	1583.7
42.5°	8407.3	5596.8	2505.9	1932.4	1903.1	1811.8	1707.6	1603.2	1531.6	1530.0
45°	9042.9	5305.1	2095.3	1813.5	1837.9	1735.3	1642.5	1557.7	1502.2	1490.8
47.5°	9640.8	4892.9	1806.9	1687.9	1772.7	1692.9	1614.7	1534.8	1481.0	1473.0
50°	10334.9	4448.0	1604.9	1565.7	1715.8	1678.3	1637.5	1554.3	1464.7	1455.1
52.5°	11175.6	4063.7	1446.9	1458.3	1671.7	1697.7	1696.1	1609.9	1453.4	1440.3
55°	12114.2	3636.7	1328.0	1370.3	1653.8	1733.5	1710.8	1662.0	1463.2	1443.5
57.5°	13038.0	3138.0	1244.8	1303.5	1627.6	1730.3	1640.8	1570.6	1485.9	1458.3
60°	13730.5	2468.5	1181.4	1244.8	1570.6	1676.5	1564.2	1471.3	1481.0	1459.8
62.5°	13776.0	1908.0	1104.6	1194.2	1484.3	1622.8	1513.6	1427.2	1502.2	1482.7
65°	12966.3	1442.0	1031.3	1134.0	1391.5	1588.7	1464.7	1402.9	1546.3	1525.1
67.5°	10916.7	1160.2	969.5	1072.0	1298.6	1516.9	1420.8	1380.1	1585.4	1547.9
70°	7881.1	989.0	909.2	997.2	1215.4	1435.4	1381.8	1339.4	1479.5	1420.8
72.5°	4852.1	857.1	840.8	897.8	1151.9	1350.7	1323.1	1262.7	1332.7	1285.6
75°	2422.8	743.0	764.2	800.0	1062.3	1254.7	1225.3	1165.0	1174.8	1165.0
77.5°	1160.2	635.5	674.5	702.2	946.6	1145.3	1114.4	1052.5	1041.1	1042.8
80°	734.9	531.2	568.6	588.2	845.7	1018.4	987.3	925.4	1055.8	979.2
82.5°	459.5	431.7	441.5	477.4	736.5	886.4	845.7	790.1	951.6	752.8
85°	254.2	301.4	314.4	345.4	567.0	741.3	700.6	630.6	565.4	555.6
87.5°	151.5	179.2	184.2	206.9	381.3	536.1	474.1	449.7	373.2	371.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)