

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: P193298

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37281.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

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

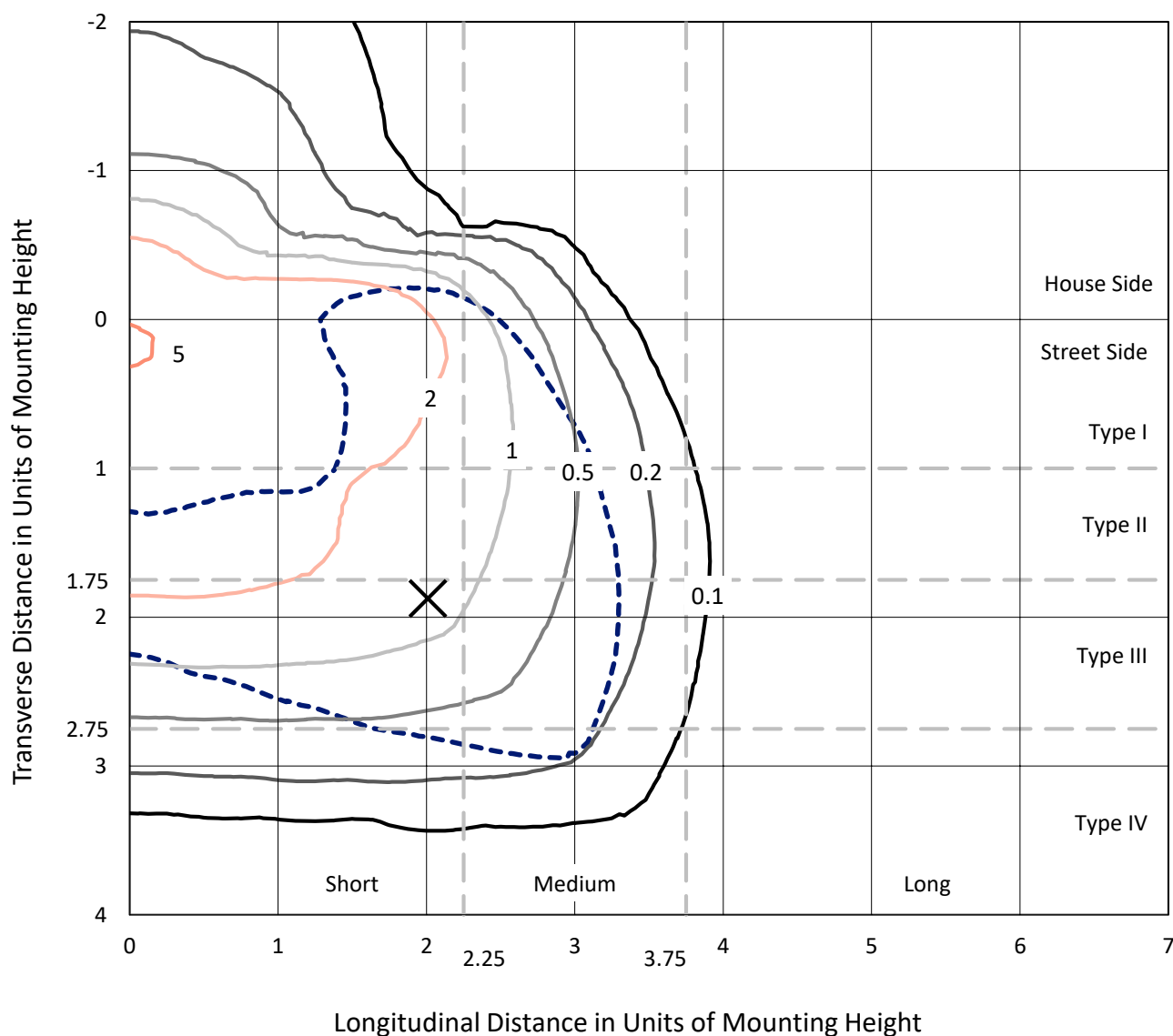


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

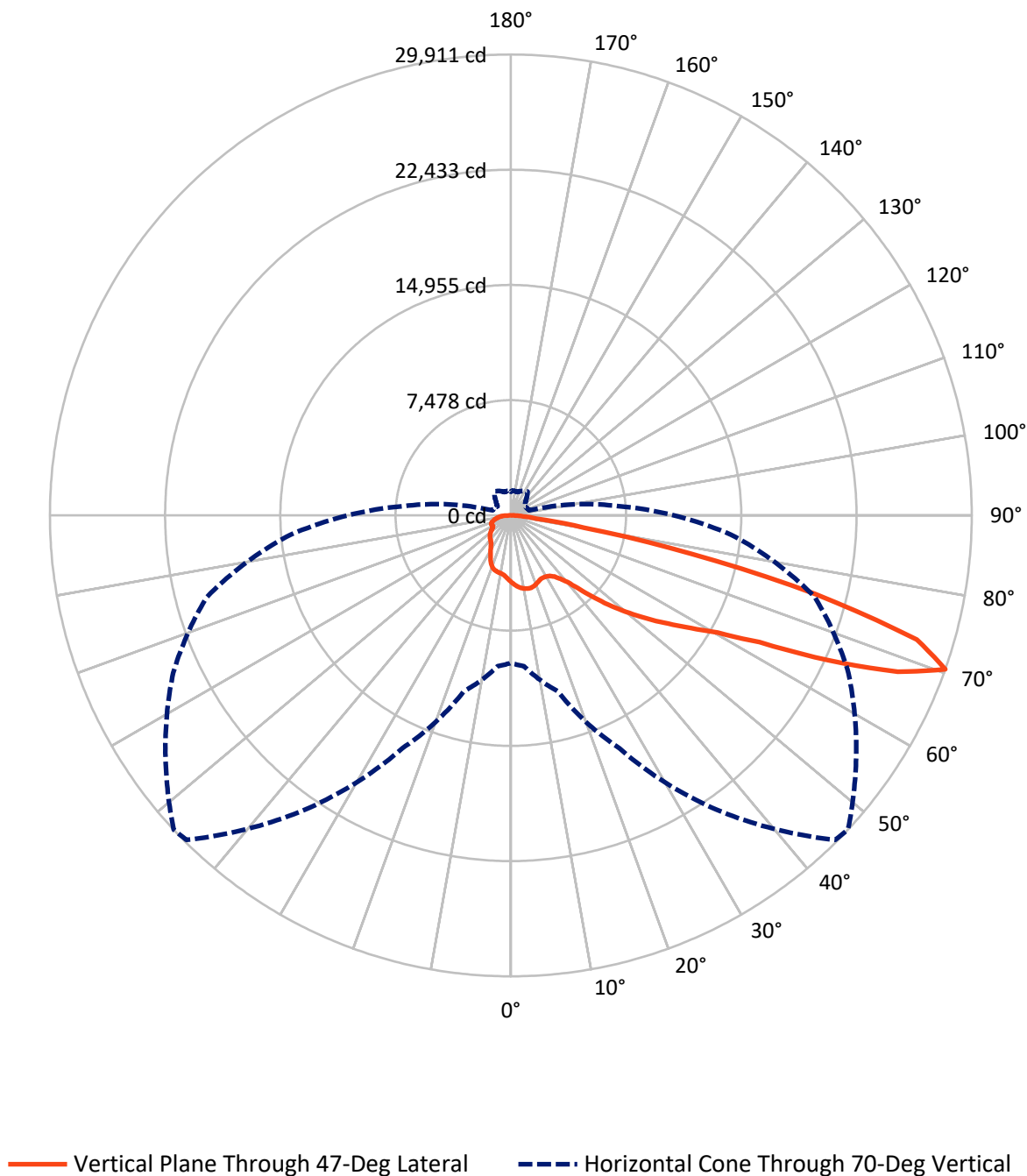


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7777.6	0.0	7777.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	29503.8	0.0	29503.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	37281.4	0.0	37281.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.5	1.1
10°-20°	1216.0	3.3
20°-30°	1795.7	4.8
30°-40°	2610.0	7.0
40°-50°	4697.1	12.6
50°-60°	8137.2	21.8
60°-70°	11614.2	31.2
70°-80°	5962.1	16.0
80°-90°	834.7	2.2
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°	37281.4	100.0
0°-180°	37281.4	100.0

Coefficient of Utilization



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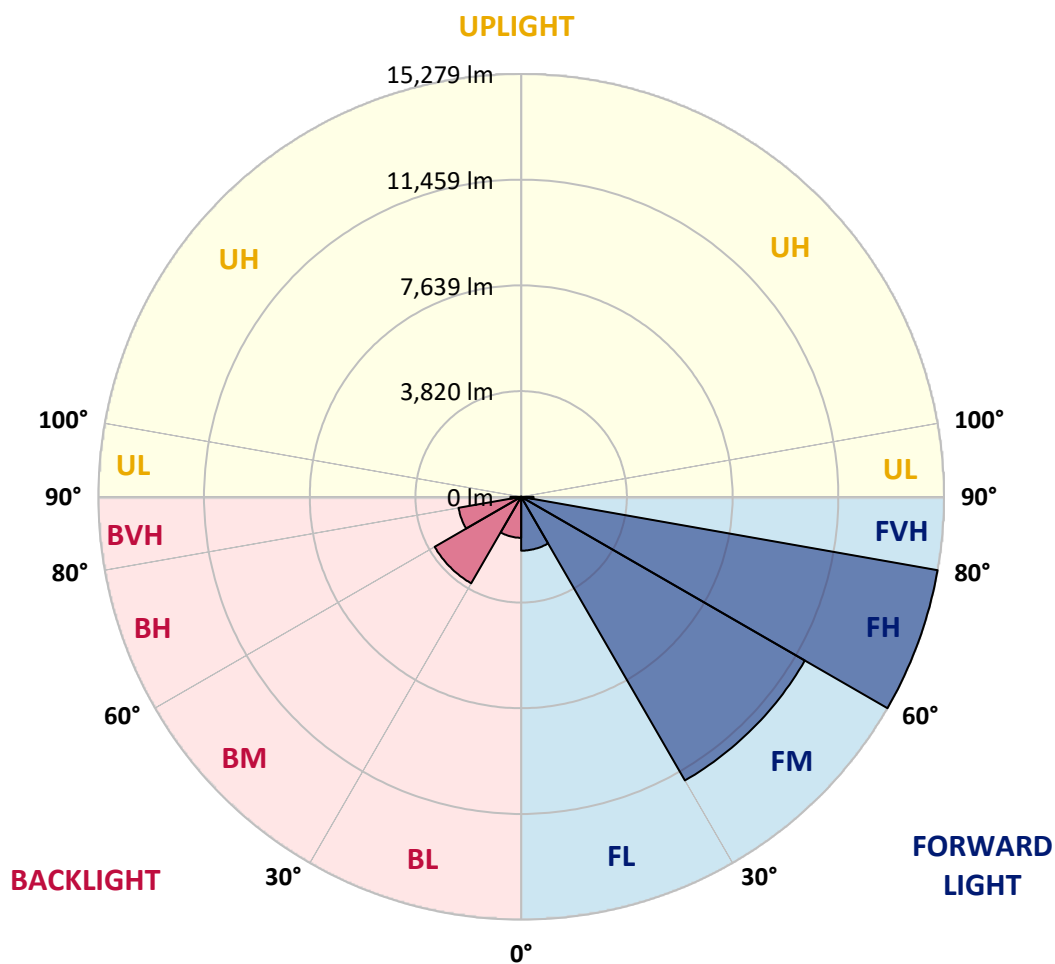
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1945.3	5.2			
FM	(30°-60°)	11834.2	31.7			
FH	(60°-80°)	15279.0	41.0			G5
FVH	(80°-90°)	445.4	1.2			G3/500
BL	(0°-30°)	1480.9	4.0	B3/2500		
BM	(30°-60°)	3610.1	9.7	B3/5000		
BH	(60°-80°)	2297.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	389.3	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8
2.5°	4579.7	4570.7	4567.0	4559.8	4550.7	4505.5	4496.3	4463.7	4418.3	4371.1	4322.2
5°	4880.8	4879.0	4859.1	4822.8	4764.7	4665.0	4641.5	4561.6	4454.6	4351.2	4247.8
7.5°	5145.7	5129.2	5091.3	5018.8	4917.1	4781.0	4748.4	4637.7	4490.9	4349.4	4209.8
10°	5339.7	5330.6	5247.1	5147.4	5015.0	4864.4	4826.4	4703.1	4541.7	4362.0	4188.0
12.5°	5450.3	5432.2	5336.1	5216.4	5058.6	4911.6	4873.5	4748.4	4567.0	4362.0	4157.1
15°	5443.1	5430.4	5334.2	5203.7	5044.1	4915.2	4880.8	4755.6	4561.6	4343.9	4117.2
17.5°	5298.0	5303.5	5221.8	5093.0	4962.4	4864.4	4833.6	4717.6	4525.3	4307.6	4070.0
20°	5044.1	5069.4	5015.0	4900.8	4828.1	4761.1	4741.2	4643.2	4469.1	4255.1	4019.3
22.5°	4790.2	4813.8	4791.9	4695.9	4684.9	4645.0	4634.1	4563.4	4420.1	4222.5	3988.4
25°	4603.3	4625.1	4621.4	4538.0	4570.7	4568.9	4559.8	4525.3	4409.2	4222.5	3993.9
27.5°	4552.5	4559.8	4552.5	4476.4	4521.7	4558.0	4550.7	4545.3	4441.9	4275.0	4062.8
30°	4726.7	4715.7	4659.6	4505.5	4547.1	4597.8	4590.6	4594.3	4539.8	4412.9	4217.0
32.5°	5421.3	5372.4	5194.6	4761.1	4650.5	4677.7	4681.3	4741.2	4750.3	4625.1	4456.3
35°	6460.6	6406.2	6175.9	5446.7	4971.6	4877.3	4877.3	4967.9	5022.3	4929.8	4828.1
37.5°	7561.5	7501.7	7378.4	6397.1	5646.2	5223.5	5214.5	5278.0	5356.0	5377.7	5403.2
40°	8813.1	8749.6	8784.0	7463.6	6587.6	5823.9	5695.2	5649.8	5860.2	5999.9	6203.0
42.5°	10182.4	10153.4	10166.1	8651.5	7659.5	6721.7	6538.6	6304.6	6558.5	6807.1	7233.3
45°	11450.3	11475.6	11462.9	9923.0	8852.9	7817.3	7623.2	7169.8	7418.2	7844.5	8539.1
47.5°	12560.2	12455.0	12618.4	11312.3	10189.6	9043.4	8804.0	8196.4	8448.5	8974.4	10149.7
50°	13907.8	13893.4	13653.9	13166.1	11805.8	10275.0	9961.1	9257.4	9649.2	10380.1	12179.3
52.5°	15324.3	15061.4	14842.0	14608.0	13519.7	11537.3	11152.7	10314.8	11060.4	11979.8	14653.3
55°	15614.7	15496.7	15768.9	16162.4	15172.1	12848.7	12400.6	11640.7	12649.2	13808.0	17506.4
57.5°	16235.0	16233.0	16795.4	17497.4	16873.4	14239.8	13788.2	13242.2	14435.7	15903.0	20535.4
60°	16654.0	16771.9	17816.6	19178.6	18543.8	15846.8	15431.4	15090.5	16467.1	18244.5	23357.6
62.5°	16873.4	17033.0	18458.6	19860.6	20905.3	18522.0	18106.8	17615.3	19155.2	20812.8	25008.1
65°	15961.0	16274.8	18358.9	20450.0	22973.1	22858.7	22672.0	21808.5	22515.9	22842.4	24411.4
67.5°	13436.2	13757.4	16184.1	19900.5	24449.4	27041.3	27081.2	25606.6	24583.7	23016.5	20524.5
70°	9573.0	9825.1	11833.0	16684.8	23324.8	29774.6	29910.6	27356.9	24172.0	20412.1	14339.5
72.5°	4545.3	4699.5	6600.3	10858.9	18509.4	27280.7	27543.7	25122.3	20553.6	15112.2	7822.8
75°	1670.5	1717.7	2231.0	4619.6	10735.6	20118.2	20428.3	18008.7	13624.9	7523.5	2980.0
77.5°	1001.2	1032.1	1251.4	1949.8	4222.5	11499.2	11958.1	9794.3	5954.5	2800.5	1465.5
80°	700.2	721.8	897.8	1213.5	1995.2	4382.1	4790.2	3997.5	2372.3	1772.0	1066.5
82.5°	473.4	484.2	631.2	819.8	1325.9	1565.2	1688.6	1777.4	1599.8	1318.6	676.6
85°	310.2	321.0	428.1	540.5	843.4	808.9	827.1	1046.4	1168.1	896.0	375.5
87.5°	177.8	184.9	257.6	288.3	413.5	342.7	346.5	551.4	747.3	603.9	228.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8
2.5°	4309.5	4285.9	4233.4	4200.7	4169.9	4162.6	4149.8	4148.0	4146.3	4146.3	4140.8
5°	4213.4	4173.4	4091.9	4046.5	4008.4	4004.8	4002.9	4012.0	4015.6	4019.3	4013.8
7.5°	4151.7	4097.2	3995.7	3930.4	3885.0	3874.3	3892.4	3934.0	3961.2	3972.1	3966.6
10°	4113.6	4046.5	3928.6	3857.8	3819.8	3814.3	3838.0	3886.9	3943.0	3964.9	3963.1
12.5°	4070.0	3993.9	3868.8	3794.3	3772.6	3783.5	3814.3	3859.7	3917.7	3952.1	3954.0
15°	4026.5	3937.7	3808.9	3743.6	3734.5	3749.0	3778.0	3812.5	3857.8	3892.4	3895.9
17.5°	3974.0	3881.4	3752.6	3685.6	3678.3	3685.6	3687.4	3705.5	3734.5	3767.2	3776.2
20°	3917.7	3823.4	3689.1	3622.1	3589.3	3560.4	3527.8	3531.4	3540.4	3573.1	3580.3
22.5°	3877.8	3783.5	3640.2	3547.7	3460.7	3373.6	3308.3	3299.2	3302.8	3330.0	3339.1
25°	3881.4	3781.7	3627.5	3467.9	3277.4	3137.8	3050.7	3036.2	3034.4	3054.4	3067.0
27.5°	3952.1	3852.4	3674.7	3386.3	3078.0	2871.3	2778.7	2767.7	2753.4	2758.7	2773.2
30°	4110.0	4017.5	3788.9	3302.8	2862.1	2609.9	2513.8	2503.0	2483.0	2473.9	2484.9
32.5°	4367.5	4291.3	3955.8	3223.0	2646.3	2386.9	2289.0	2265.4	2252.7	2241.8	2250.8
35°	4795.6	4762.9	4178.9	3136.0	2455.8	2214.5	2125.7	2089.5	2071.3	2091.2	2105.8
37.5°	5466.7	5484.9	4470.9	2999.9	2308.8	2100.3	2026.0	1984.2	1957.1	1973.3	1989.7
40°	6417.1	6429.8	4793.8	2807.8	2181.9	2033.2	1953.4	1915.4	1877.2	1848.2	1846.4
42.5°	7665.0	7536.1	5111.1	2599.1	2035.1	1991.5	1902.6	1855.4	1797.5	1717.7	1701.2
45°	9145.0	8693.3	5352.4	2359.7	1870.0	1940.8	1846.4	1781.2	1690.5	1603.4	1594.3
47.5°	10849.9	9935.7	5470.3	2111.2	1715.8	1866.3	1777.4	1674.1	1559.7	1516.3	1510.8
50°	12932.0	11410.4	5526.6	1870.0	1581.6	1768.4	1677.6	1556.2	1460.0	1451.0	1445.6
52.5°	15302.7	13184.2	5544.7	1672.3	1470.9	1641.4	1596.1	1478.2	1402.1	1409.3	1409.3
55°	17783.9	15016.0	5298.0	1529.0	1369.3	1510.8	1541.6	1447.3	1383.9	1412.9	1423.7
57.5°	20061.9	16639.4	4521.7	1418.4	1273.3	1411.1	1521.8	1476.4	1432.8	1550.7	1558.0
60°	21810.5	17598.8	3377.2	1318.6	1202.5	1376.6	1574.3	1587.0	1597.9	1879.0	1917.2
62.5°	22176.8	17279.7	2321.6	1240.6	1169.8	1405.6	1670.5	1672.3	1659.5	1855.4	1879.0
65°	20495.4	15260.9	1688.6	1197.1	1142.7	1458.3	1752.1	1714.0	1630.5	1779.3	1735.8
67.5°	16276.7	11497.4	1405.6	1164.4	1102.8	1454.7	1839.2	1752.1	1614.2	1743.0	1672.3
70°	10565.2	6952.1	1251.4	1137.3	1055.6	1385.7	1889.9	1748.4	1567.1	1621.5	1538.1
72.5°	5154.8	3108.8	1148.1	1097.3	1006.6	1289.6	1888.1	1715.8	1518.1	1514.5	1469.1
75°	2016.9	1423.7	1053.8	1037.4	923.2	1180.8	1837.3	1668.6	1460.0	1402.1	1385.7
77.5°	1180.8	1015.7	934.0	948.6	823.5	1072.0	1763.0	1587.0	1380.3	1311.3	1293.2
80°	859.8	760.0	796.3	819.8	703.7	963.1	1663.3	1487.2	1291.5	1325.9	1300.5
82.5°	551.4	489.7	645.7	669.3	585.8	852.4	1554.4	1382.1	1166.3	1059.3	1033.8
85°	281.2	310.2	480.6	509.7	451.7	700.2	1422.0	1242.4	1024.8	881.5	896.0
87.5°	157.8	212.2	306.5	342.7	319.2	538.6	1153.6	1024.8	836.2	680.1	598.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)