

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: P191575

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191575
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-07-LED-E1-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42768.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

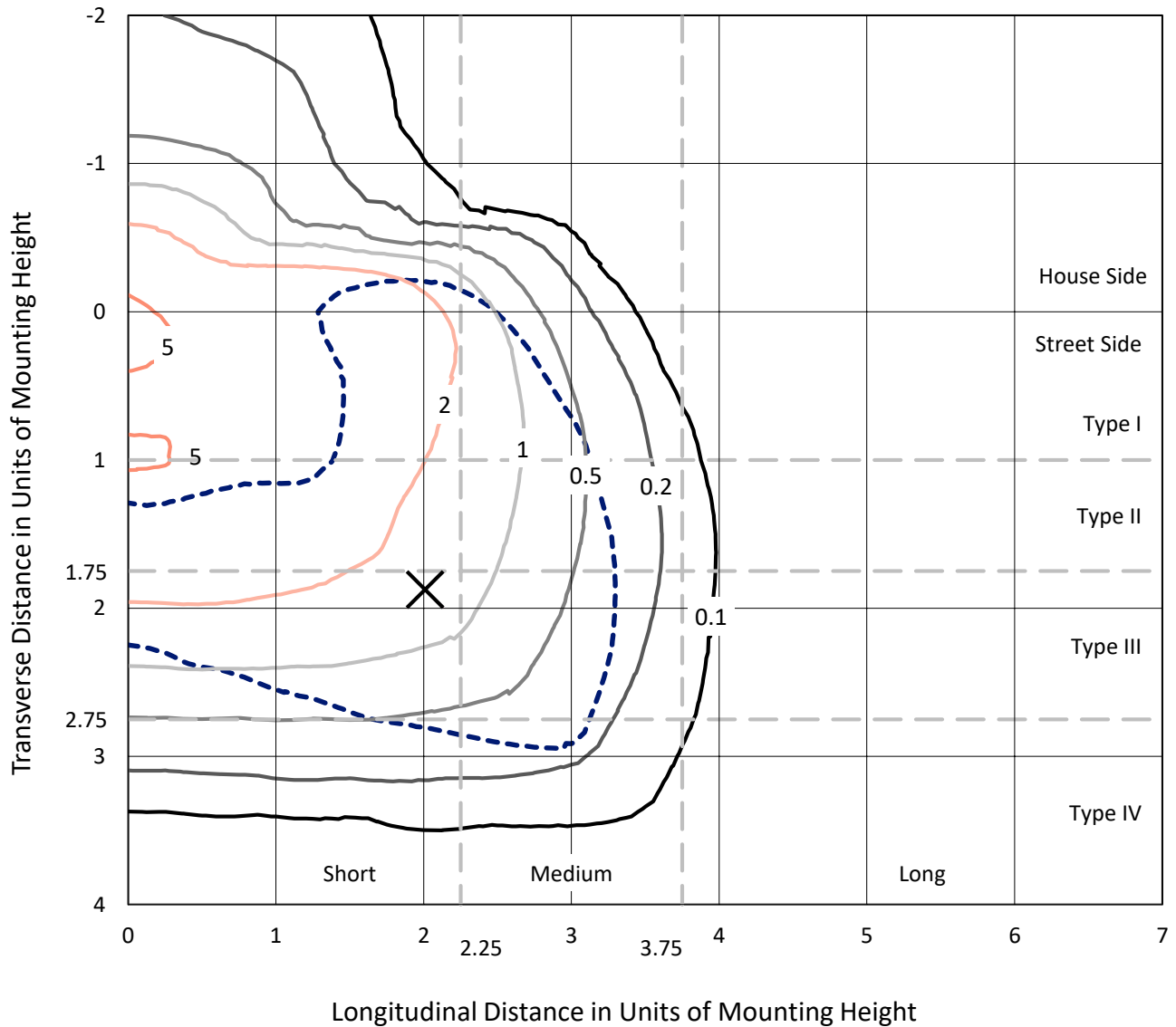
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

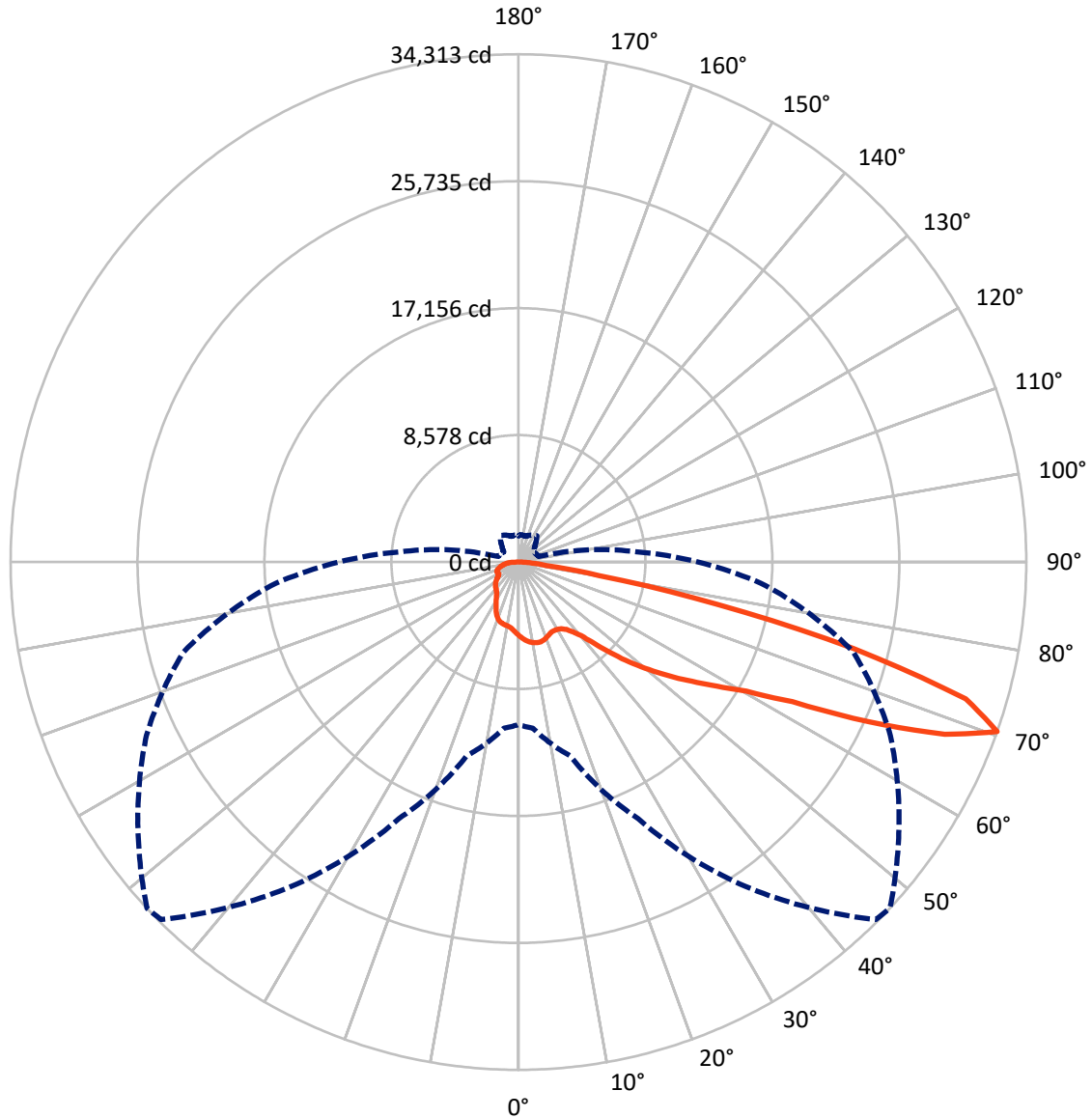
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8922.4	0.0	8922.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	33846.2	0.0	33846.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	42768.6	0.0	42768.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	1.1
10°-20°	1395.0	3.3
20°-30°	2060.0	4.8
30°-40°	2994.2	7.0
40°-50°	5388.4	12.6
50°-60°	9334.9	21.8
60°-70°	13323.6	31.2
70°-80°	6839.6	16.0
80°-90°	957.6	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°	42768.6	100.0
0°-180°	42768.6	100.0



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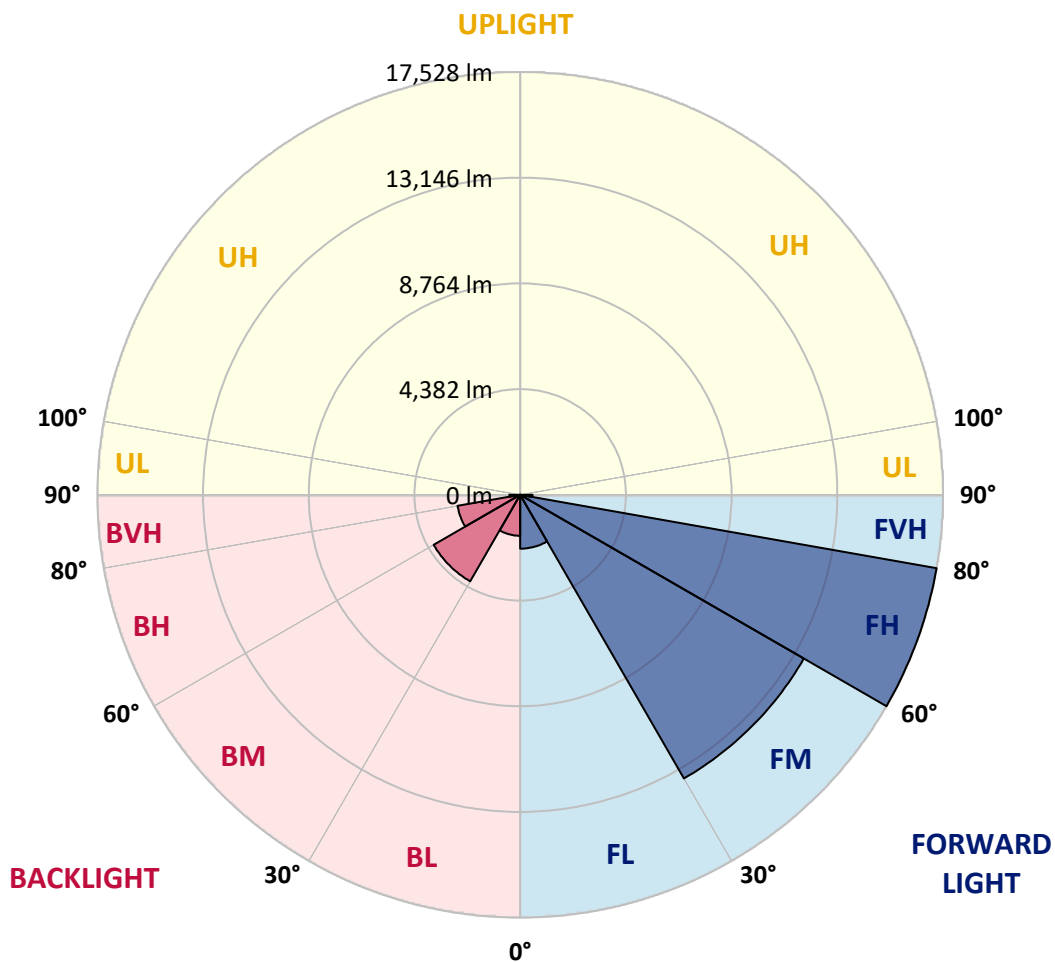
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2231.6	5.2			
FM	(30°-60°)	13575.9	31.7			
FH	(60°-80°)	17527.7	41.0			G5
FVH	(80°-90°)	511.0	1.2			G4/750
BL	(0°-30°)	1698.9	4.0	B3/2500		
BM	(30°-60°)	4141.5	9.7	B3/5000		
BH	(60°-80°)	2635.4	6.2	B4/5000		G4/5000
BVH	(80°-90°)	446.6	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4
2.5°	5253.8	5243.3	5239.2	5230.9	5220.5	5168.5	5158.0	5120.6	5068.6	5014.5	4958.3
5°	5599.2	5597.1	5574.2	5532.6	5466.0	5351.6	5324.6	5233.0	5110.3	4991.6	4873.0
7.5°	5902.9	5884.2	5840.5	5757.3	5640.8	5484.8	5447.3	5320.4	5151.8	4989.5	4829.4
10°	6125.6	6115.2	6019.5	5905.1	5753.2	5580.5	5536.7	5395.2	5210.1	5004.1	4804.4
12.5°	6252.5	6231.7	6121.4	5984.2	5803.1	5634.5	5590.8	5447.3	5239.2	5004.1	4769.0
15°	6244.2	6229.7	6119.4	5969.5	5786.4	5638.7	5599.2	5455.6	5233.0	4983.3	4723.2
17.5°	6077.8	6084.0	5990.4	5842.6	5692.8	5580.5	5545.1	5411.9	5191.4	4941.7	4669.1
20°	5786.4	5815.6	5753.2	5622.0	5538.9	5461.8	5438.9	5326.6	5126.8	4881.3	4610.8
22.5°	5495.2	5522.2	5497.2	5387.0	5374.5	5328.7	5316.2	5235.1	5070.7	4843.9	4575.5
25°	5280.9	5305.8	5301.6	5205.9	5243.3	5241.3	5230.9	5191.4	5058.2	4843.9	4581.7
27.5°	5222.6	5230.9	5222.6	5135.2	5187.2	5228.8	5220.5	5214.3	5095.6	4904.2	4660.8
30°	5422.4	5409.9	5345.3	5168.5	5216.3	5274.5	5266.3	5270.4	5208.0	5062.4	4837.6
32.5°	6219.2	6163.1	5959.1	5461.8	5334.9	5366.1	5370.3	5438.9	5449.4	5305.8	5112.3
35°	7411.5	7349.1	7084.8	6248.4	5703.3	5595.0	5595.0	5699.1	5761.5	5655.4	5538.9
37.5°	8674.4	8605.8	8464.3	7338.6	6477.2	5992.4	5982.0	6054.8	6144.4	6169.3	6198.5
40°	10110.1	10037.3	10076.9	8562.1	7557.2	6681.1	6533.4	6481.4	6722.7	6882.9	7116.1
42.5°	11681.1	11647.8	11662.4	9925.0	8786.8	7711.1	7501.0	7232.6	7523.8	7808.9	8297.9
45°	13135.5	13164.7	13150.0	11383.5	10156.0	8967.8	8745.2	8225.0	8510.1	8999.1	9796.0
47.5°	14408.9	14288.2	14475.5	12977.4	11689.4	10374.4	10099.7	9402.8	9691.9	10295.3	11643.6
50°	15954.9	15938.2	15663.5	15103.9	13543.4	11787.2	11427.3	10620.0	11069.4	11907.9	13972.0
52.5°	17579.9	17278.2	17026.4	16758.0	15509.6	13235.3	12794.3	11833.0	12688.2	13743.0	16810.0
55°	17912.8	17777.6	18089.7	18541.2	17405.1	14739.7	14225.8	13354.0	14510.9	15840.4	20083.0
57.5°	18624.4	18622.3	19267.4	20072.5	19356.8	16335.6	15817.5	15191.2	16560.3	18243.6	23557.7
60°	19105.0	19240.3	20438.8	22001.4	21273.2	18179.2	17702.7	17311.5	18890.7	20929.8	26795.4
62.5°	19356.8	19539.9	21175.4	22783.8	23982.3	21248.1	20771.7	20207.8	21974.3	23876.1	28688.8
65°	18310.2	18670.2	21060.9	23459.9	26354.2	26223.1	26008.8	25018.4	25829.9	26204.4	28004.2
67.5°	15413.8	15782.2	18566.1	22829.5	28047.9	31021.3	31067.0	29375.4	28201.9	26404.2	23545.3
70°	10982.0	11271.2	13574.6	19140.4	26757.8	34156.8	34312.9	31383.3	27729.5	23416.3	16450.1
72.5°	5214.3	5391.2	7571.7	12457.2	21233.6	31295.9	31597.6	28819.9	23578.6	17336.5	8974.0
75°	1916.3	1970.4	2559.2	5299.6	12315.7	23079.2	23435.0	20659.3	15630.3	8630.7	3418.6
77.5°	1148.6	1184.0	1435.7	2236.8	4843.9	13191.7	13718.1	11235.8	6831.0	3212.6	1681.2
80°	803.1	828.1	1029.9	1392.0	2288.8	5027.0	5495.2	4585.9	2721.6	2032.8	1223.4
82.5°	543.1	555.6	724.0	940.5	1521.0	1795.7	1937.2	2039.0	1835.2	1512.6	776.1
85°	355.8	368.3	491.0	620.0	967.5	928.0	948.8	1200.5	1340.0	1027.9	430.7
87.5°	203.9	212.3	295.4	330.8	474.4	393.2	397.4	632.5	857.2	692.8	262.2
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°	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4	4962.4
2.5°	4943.7	4916.7	4856.4	4818.9	4783.5	4775.2	4760.6	4758.6	4756.5	4756.5	4750.3
5°	4833.4	4787.7	4694.1	4642.0	4598.4	4594.2	4592.1	4602.6	4606.7	4610.8	4604.6
7.5°	4762.8	4700.4	4583.8	4508.9	4456.9	4444.4	4465.2	4513.1	4544.3	4556.7	4550.5
10°	4719.1	4642.0	4506.8	4425.7	4382.0	4375.8	4402.8	4458.9	4523.5	4548.4	4546.3
12.5°	4669.1	4581.7	4438.2	4352.9	4327.9	4340.4	4375.8	4427.7	4494.3	4533.8	4536.0
15°	4619.1	4517.2	4369.4	4294.6	4284.2	4300.8	4334.1	4373.6	4425.7	4465.2	4469.4
17.5°	4558.8	4452.7	4305.0	4228.0	4219.7	4228.0	4230.1	4250.9	4284.2	4321.7	4332.0
20°	4494.3	4386.1	4232.2	4155.1	4117.7	4084.4	4047.0	4051.1	4061.5	4099.0	4107.4
22.5°	4448.5	4340.4	4176.0	4069.8	3970.0	3870.1	3795.2	3784.8	3789.0	3820.2	3830.5
25°	4452.7	4338.2	4161.4	3978.4	3759.9	3599.7	3499.7	3483.1	3481.0	3503.9	3518.4
27.5°	4533.8	4419.5	4215.5	3884.7	3530.9	3293.8	3187.6	3175.1	3158.5	3164.7	3181.4
30°	4714.9	4608.8	4346.6	3789.0	3283.4	2994.2	2883.9	2871.4	2848.5	2838.1	2850.6
32.5°	5010.3	4923.0	4538.0	3697.5	3035.7	2738.2	2625.8	2598.8	2584.3	2571.8	2582.1
35°	5501.4	5463.9	4794.0	3597.5	2817.3	2540.5	2438.6	2397.0	2376.2	2399.0	2415.7
37.5°	6271.2	6292.1	5129.0	3441.5	2648.7	2409.5	2324.1	2276.3	2245.1	2263.8	2282.5
40°	7361.6	7376.1	5499.3	3221.0	2503.1	2332.4	2240.9	2197.2	2153.5	2120.3	2118.1
42.5°	8793.1	8645.4	5863.5	2981.7	2334.6	2284.7	2182.7	2128.6	2062.0	1970.4	1951.7
45°	10490.9	9972.8	6140.2	2707.0	2145.2	2226.4	2118.1	2043.2	1939.2	1839.4	1828.9
47.5°	12446.8	11398.1	6275.4	2421.9	1968.4	2141.0	2039.0	1920.5	1789.4	1739.4	1733.2
50°	14835.4	13089.7	6339.9	2145.2	1814.4	2028.7	1924.7	1785.3	1675.0	1664.5	1658.3
52.5°	17555.0	15124.6	6360.7	1918.4	1687.5	1883.0	1831.0	1695.7	1608.4	1616.7	1616.7
55°	20401.3	17226.2	6077.8	1754.1	1570.9	1733.2	1768.6	1660.5	1587.6	1620.9	1633.3
57.5°	23014.7	19088.4	5187.2	1627.1	1460.7	1618.8	1745.7	1693.7	1643.8	1779.0	1787.3
60°	25020.5	20189.1	3874.3	1512.6	1379.6	1579.2	1806.0	1820.6	1833.1	2155.6	2199.3
62.5°	25440.8	19822.8	2663.3	1423.2	1342.0	1612.6	1916.3	1918.4	1903.8	2128.6	2155.6
65°	23512.0	17507.1	1937.2	1373.3	1310.8	1672.9	2010.0	1966.3	1870.6	2041.2	1991.3
67.5°	18672.2	13189.6	1612.6	1335.8	1265.1	1668.7	2109.8	2010.0	1851.8	1999.6	1918.4
70°	12120.1	7975.3	1435.7	1304.6	1211.0	1589.7	2168.1	2005.8	1797.7	1860.1	1764.5
72.5°	5913.4	3566.3	1317.0	1258.8	1154.8	1479.4	2166.0	1968.4	1741.6	1737.4	1685.4
75°	2313.7	1633.3	1208.9	1190.2	1059.1	1354.5	2107.8	1914.2	1675.0	1608.4	1589.7
77.5°	1354.5	1165.2	1071.5	1088.2	944.6	1229.7	2022.5	1820.6	1583.4	1504.4	1483.6
80°	986.2	871.9	913.4	940.5	807.3	1104.9	1908.0	1706.2	1481.4	1521.0	1491.9
82.5°	632.5	561.8	740.7	767.8	672.1	977.9	1783.2	1585.5	1337.9	1215.2	1186.0
85°	322.5	355.8	551.4	584.7	518.1	803.1	1631.3	1425.3	1175.6	1011.2	1027.9
87.5°	181.1	243.5	351.6	393.2	366.2	618.0	1323.3	1175.6	959.2	780.3	686.6
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)