

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: P269593

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4FT-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41696.3 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

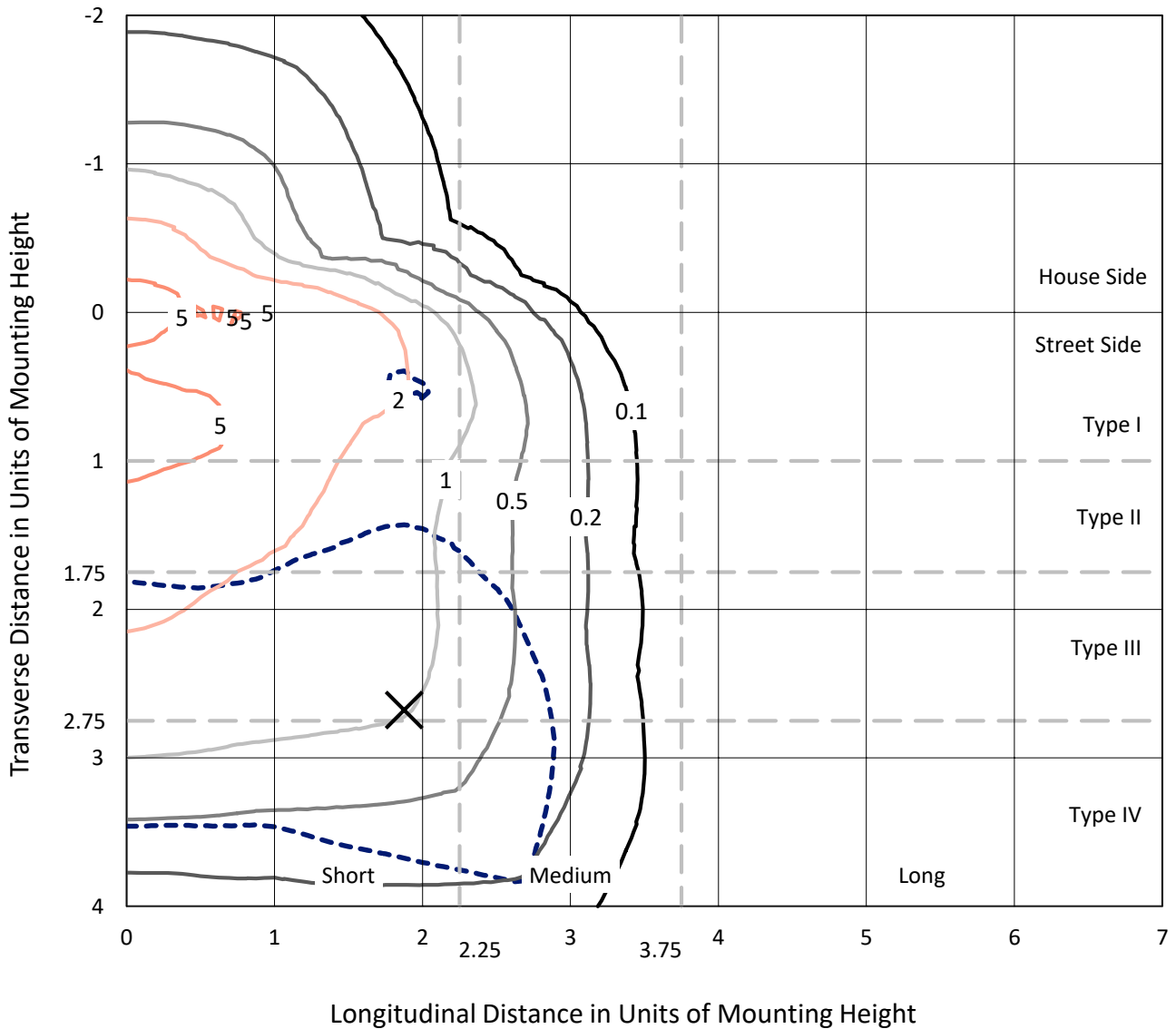
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

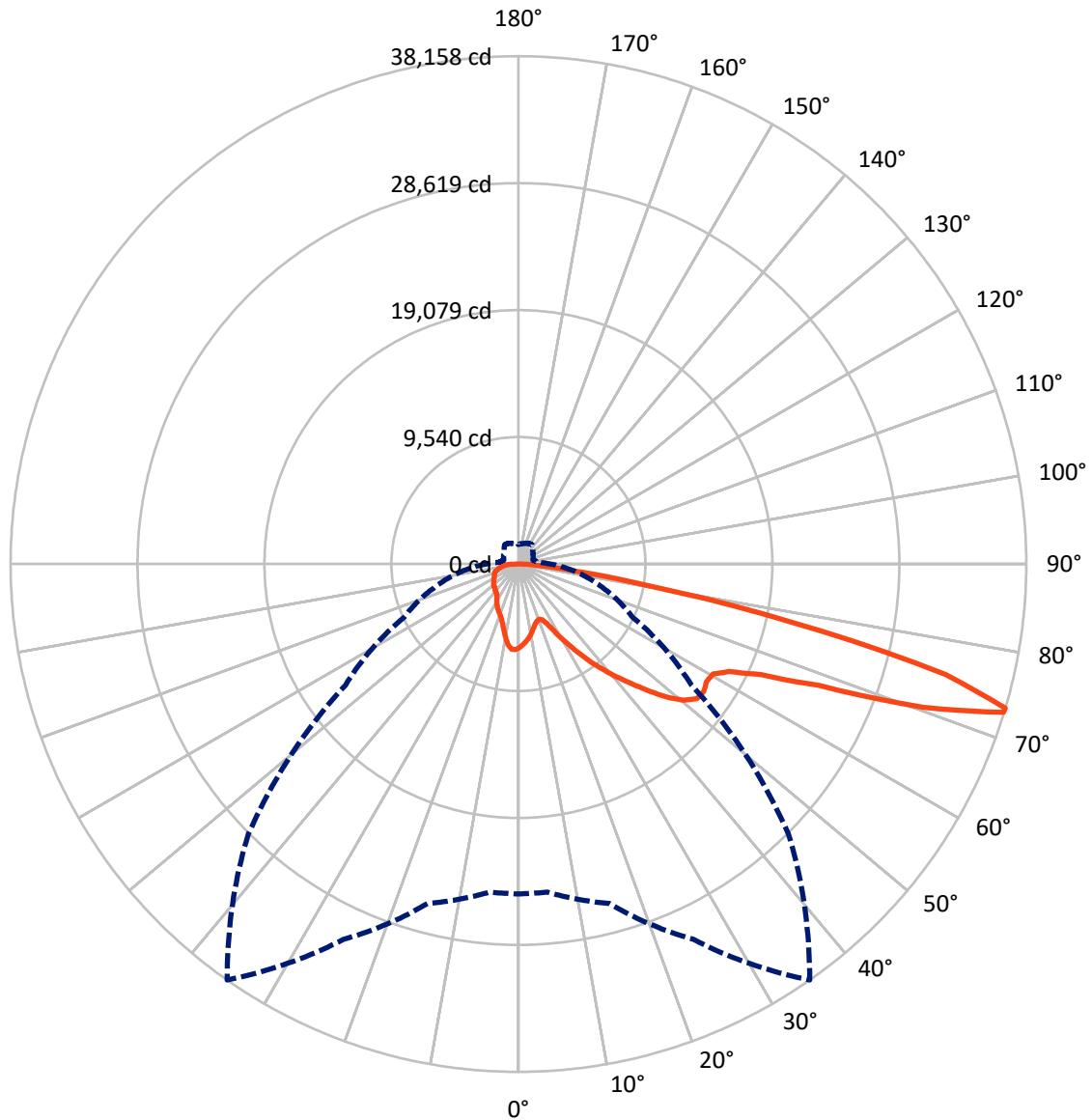
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7952.6	0.0	7952.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	33743.6	0.0	33743.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	41696.3	0.0	41696.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.7	1.4
10°-20°	1421.9	3.4
20°-30°	2298.8	5.5
30°-40°	3854.7	9.2
40°-50°	5941.9	14.3
50°-60°	7971.6	19.1
60°-70°	10619.8	25.5
70°-80°	8099.7	19.4
80°-90°	918.1	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°	41696.3	100.0
0°-180°	41696.3	100.0

Coefficient of Utilization



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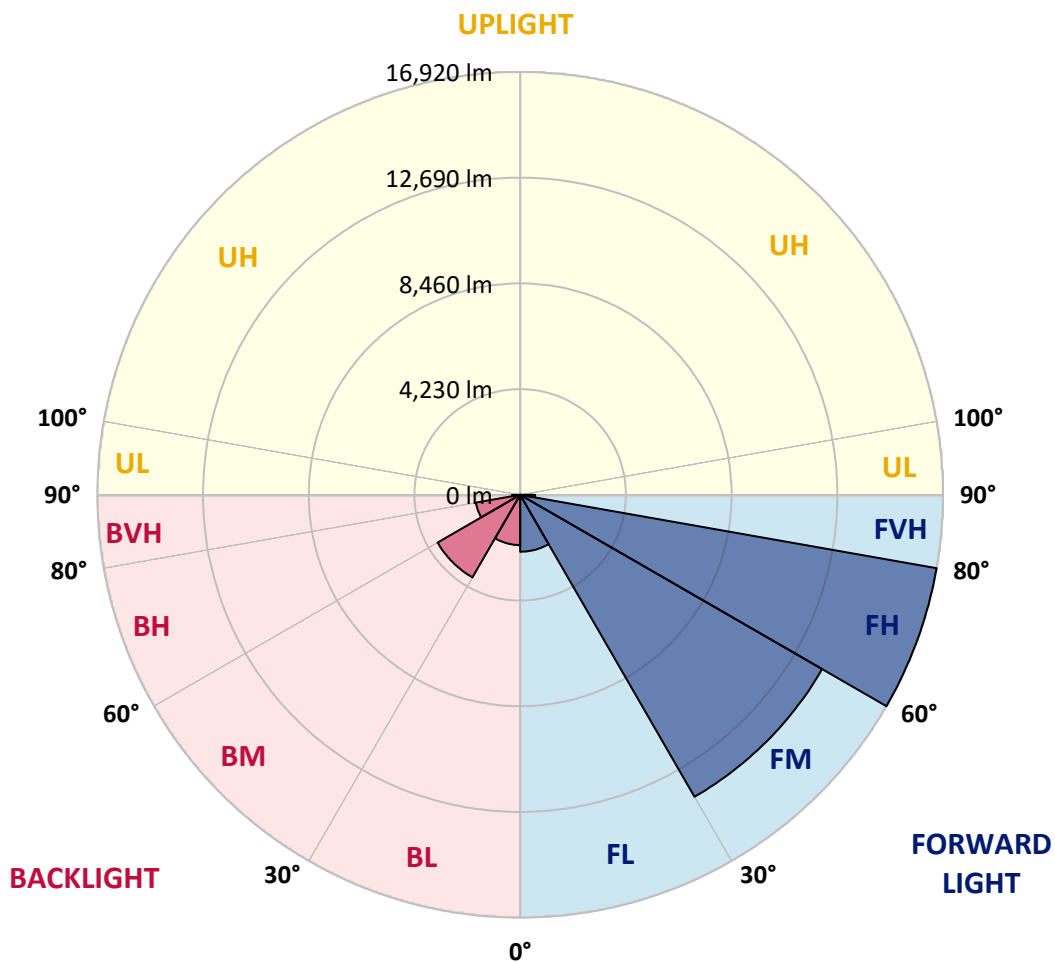
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2278.0	5.5			
FM	(30°-60°)	13951.8	33.5			
FH	(60°-80°)	16920.3	40.6			G5
FVH	(80°-90°)	593.4	1.4			G4/750
BL	(0°-30°)	2012.4	4.8	B3/2500		
BM	(30°-60°)	3816.4	9.2	B3/5000		
BH	(60°-80°)	1799.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	324.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3
2.5°	6045.0	6057.0	6043.0	6061.0	6091.0	6123.0	6145.0	6177.1	6213.1	6263.3	6275.2
5°	5760.7	5778.6	5778.6	5810.6	5868.7	5920.8	5968.9	6021.0	6097.1	6183.2	6217.2
7.5°	5448.3	5458.3	5476.2	5524.3	5608.5	5682.6	5750.6	5834.8	5938.9	6053.0	6113.1
10°	5071.8	5085.8	5114.0	5182.1	5296.0	5398.3	5496.3	5612.5	5744.7	5886.9	5962.9
12.5°	4805.6	4801.5	4813.6	4863.7	4963.8	5087.9	5230.0	5378.2	5540.3	5706.7	5798.6
15°	4715.5	4693.5	4647.4	4635.3	4689.4	4813.6	4977.8	5160.0	5354.2	5554.4	5668.6
17.5°	4771.4	4733.4	4607.2	4515.2	4507.2	4601.3	4775.5	4979.8	5204.1	5448.3	5590.4
20°	5123.9	5033.8	4723.5	4509.2	4435.1	4481.1	4633.4	4849.6	5114.0	5438.2	5620.4
22.5°	5966.9	5834.8	5175.9	4777.5	4527.2	4471.1	4585.3	4815.5	5123.9	5562.5	5794.6
25°	7194.3	7006.2	5952.9	5446.2	4929.7	4631.3	4657.4	4893.6	5266.0	5850.8	6131.1
27.5°	8163.3	8041.3	6968.1	6389.4	5662.6	5063.8	4891.6	5089.8	5556.5	6323.3	6609.5
30°	8740.1	8665.9	8053.2	7458.5	6597.6	5752.7	5340.2	5458.3	6011.0	6978.0	7214.3
32.5°	9408.8	9364.8	9064.4	8517.8	7606.8	6657.7	6051.1	6008.9	6619.6	7764.9	7873.0
35°	10101.7	10087.6	9911.4	9519.0	8690.1	7851.0	6994.1	6709.7	7282.4	8581.9	8513.9
37.5°	10746.5	10722.3	10620.2	10392.0	9823.3	9132.6	7955.2	7428.5	7997.3	9362.9	9060.5
40°	11933.8	11745.6	11395.2	11223.0	10968.7	10211.8	8718.1	8099.4	8738.2	10107.6	9533.1
42.5°	13381.4	13075.1	12422.3	12186.0	12150.0	11062.7	9238.7	8750.1	9484.9	10846.6	9997.5
45°	14520.7	14232.4	13669.8	13371.5	13503.6	11833.6	9761.3	9444.9	10253.9	11621.5	10476.2
47.5°	15736.1	15283.7	14538.8	14628.9	14917.3	12562.4	10293.9	10191.8	11096.9	12488.3	11070.8
50°	15780.3	15433.8	15107.4	15646.0	16094.6	13233.3	10960.7	10974.7	12127.9	13579.7	11861.7
52.5°	14865.2	14791.0	15309.6	16156.6	16803.3	13763.9	11719.5	11783.5	13447.4	14833.2	12730.7
55°	14544.7	14460.6	15059.4	15978.4	16899.5	14202.5	12542.5	12658.6	15043.3	16154.7	13577.7
57.5°	15325.8	15139.5	15179.5	15894.3	16665.3	14682.9	13439.5	13673.8	16777.4	17310.0	14122.3
60°	17508.2	17109.7	16352.8	16334.9	16791.4	15403.7	14476.7	14763.0	18579.5	17862.5	13910.1
62.5°	20569.7	20171.4	18753.6	17830.5	17762.5	16593.1	15750.3	15826.2	19620.6	17113.8	12614.5
65°	23883.5	23527.1	21943.3	20639.8	20011.2	18563.5	17229.9	16300.9	19280.2	15053.3	10347.9
67.5°	27906.1	27523.8	26162.1	24958.8	24354.0	21743.0	18269.1	15846.3	17119.8	11661.4	7438.5
70°	30719.5	30329.0	29792.4	30767.5	32247.3	26330.4	18403.2	13998.2	12786.7	7750.9	4477.2
72.5°	27049.3	26867.0	27846.1	31952.9	38116.1	29113.6	16635.3	10191.8	7426.6	4114.7	2591.0
73°	24782.6	24742.6	26412.4	31121.9	38158.1	28685.0	15860.4	9472.9	6369.3	3640.2	2368.7
75°	11190.9	11513.2	15173.5	23771.5	33152.3	23637.3	11162.9	5434.2	3598.2	2515.0	1788.0
77.5°	2689.0	2801.3	4747.5	11289.0	20936.2	14086.2	5057.8	2687.1	2300.6	1776.0	1305.4
80°	1145.2	1183.3	1828.1	4170.8	9857.5	5672.5	2330.7	1800.1	1591.8	1239.4	915.1
82.5°	636.7	676.9	1037.3	1892.2	3978.7	1934.2	1421.7	1253.5	1047.2	746.9	594.7
85°	360.4	382.5	606.6	1057.2	1685.9	776.9	851.0	833.0	590.6	384.5	292.4
87.5°	170.1	184.2	292.4	490.6	660.8	304.3	432.5	476.6	370.5	234.3	152.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3	6293.3
2.5°	6289.3	6325.2	6367.4	6389.4	6409.3	6433.4	6457.5	6457.5	6461.5	6463.5
5°	6245.1	6319.2	6385.3	6413.4	6419.4	6419.4	6413.4	6381.4	6353.4	6365.3
7.5°	6153.1	6261.2	6317.3	6307.3	6231.3	6143.1	6068.9	5978.8	5932.9	5924.9
10°	6021.0	6145.0	6155.0	6054.9	5866.8	5678.5	5522.4	5370.2	5298.2	5280.1
12.5°	5874.7	5988.9	5924.9	5718.6	5416.2	5142.0	4943.7	4789.6	4721.4	4703.4
15°	5756.7	5834.8	5672.5	5348.1	4967.7	4677.5	4513.3	4399.1	4351.0	4336.9
17.5°	5694.5	5710.5	5414.3	4975.7	4571.3	4329.0	4226.9	4172.7	4154.8	4144.8
20°	5724.5	5612.5	5167.9	4629.3	4246.8	4076.7	4052.7	4038.7	4034.6	4028.7
22.5°	5874.7	5582.4	4941.7	4300.9	3962.6	3888.6	3908.5	3906.5	3902.4	3898.6
25°	6143.1	5608.5	4721.4	3988.7	3724.4	3708.3	3744.3	3744.3	3728.2	3728.2
27.5°	6497.5	5662.6	4475.1	3692.3	3508.1	3510.0	3538.1	3530.1	3512.1	3500.1
30°	6930.1	5696.6	4186.8	3426.0	3305.9	3297.8	3305.9	3271.7	3217.6	3213.6
32.5°	7372.5	5654.6	3852.4	3189.7	3091.5	3073.6	3067.5	3019.6	2957.4	2939.4
35°	7772.9	5500.3	3512.1	3001.4	2887.3	2847.3	2875.4	2859.2	2803.3	2789.1
37.5°	8065.3	5214.0	3205.7	2835.3	2741.2	2731.1	2749.2	2755.2	2689.0	2675.2
40°	8261.5	4825.5	2943.3	2695.2	2713.2	2675.2	2615.1	2572.9	2553.0	2547.0
42.5°	8419.8	4421.1	2723.1	2629.0	2719.1	2608.9	2478.9	2410.8	2446.9	2462.9
45°	8601.9	4026.7	2538.9	2547.0	2689.0	2533.0	2384.7	2318.6	2332.7	2336.8
47.5°	8852.2	3546.1	2340.8	2414.7	2588.9	2480.8	2326.7	2232.6	2166.5	2136.4
50°	9198.6	2977.4	2134.5	2266.7	2490.9	2442.9	2236.6	2136.4	2014.3	1986.3
52.5°	9438.9	2446.9	1964.2	2142.5	2402.7	2366.8	2164.5	2034.3	1906.3	1882.2
55°	9308.7	2032.3	1816.2	2004.3	2286.6	2272.6	2104.4	1930.2	1830.0	1810.1
57.5°	8658.0	1770.0	1702.0	1874.1	2144.4	2192.6	2024.3	1842.2	1770.0	1756.0
60°	7416.5	1605.9	1629.9	1786.1	2028.4	2112.5	1944.2	1794.1	1746.0	1736.1
62.5°	5754.6	1495.7	1575.8	1722.1	1938.3	2056.4	1900.2	1788.0	1770.0	1758.1
65°	4122.7	1407.6	1517.7	1657.9	1856.2	2004.3	1884.1	1780.0	1784.0	1774.1
67.5°	2801.3	1329.5	1447.7	1585.9	1776.0	1958.2	1862.1	1752.1	1802.1	1790.1
70°	1960.2	1253.5	1365.6	1493.7	1676.0	1894.2	1822.1	1710.0	1706.1	1657.9
72.5°	1529.8	1153.3	1253.5	1365.6	1547.8	1804.1	1742.1	1616.0	1549.8	1499.7
73°	1459.7	1129.3	1225.4	1337.5	1519.8	1782.1	1720.0	1589.8	1515.7	1469.6
75°	1207.4	1025.1	1113.3	1213.4	1399.6	1677.9	1611.9	1471.8	1377.6	1349.6
77.5°	949.1	877.0	961.0	1051.1	1233.5	1525.7	1451.8	1317.5	1265.4	1241.5
80°	702.8	726.9	800.8	881.0	1069.3	1363.5	1297.5	1163.3	1395.5	1337.5
82.5°	494.5	550.7	618.8	690.7	897.0	1205.3	1125.2	987.1	1021.2	849.0
85°	292.4	360.4	424.4	486.5	646.7	999.2	929.0	786.9	644.8	614.7
87.5°	170.1	200.2	218.3	282.3	444.5	752.9	654.8	582.7	334.3	226.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)