

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: P191526

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191526
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 39663.9 lumens
Efficiency: N/A
Efficacy: 118.8 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

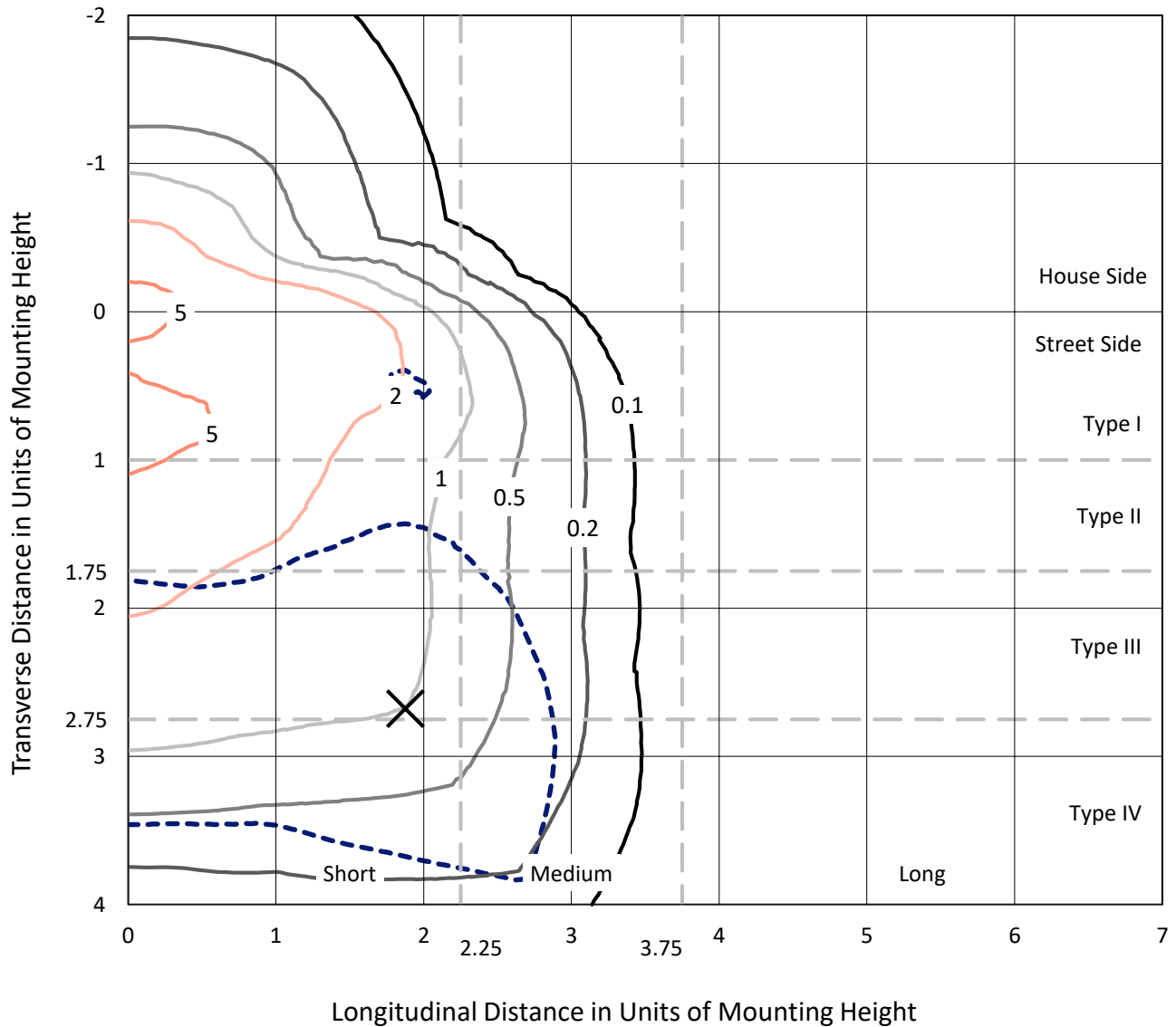
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

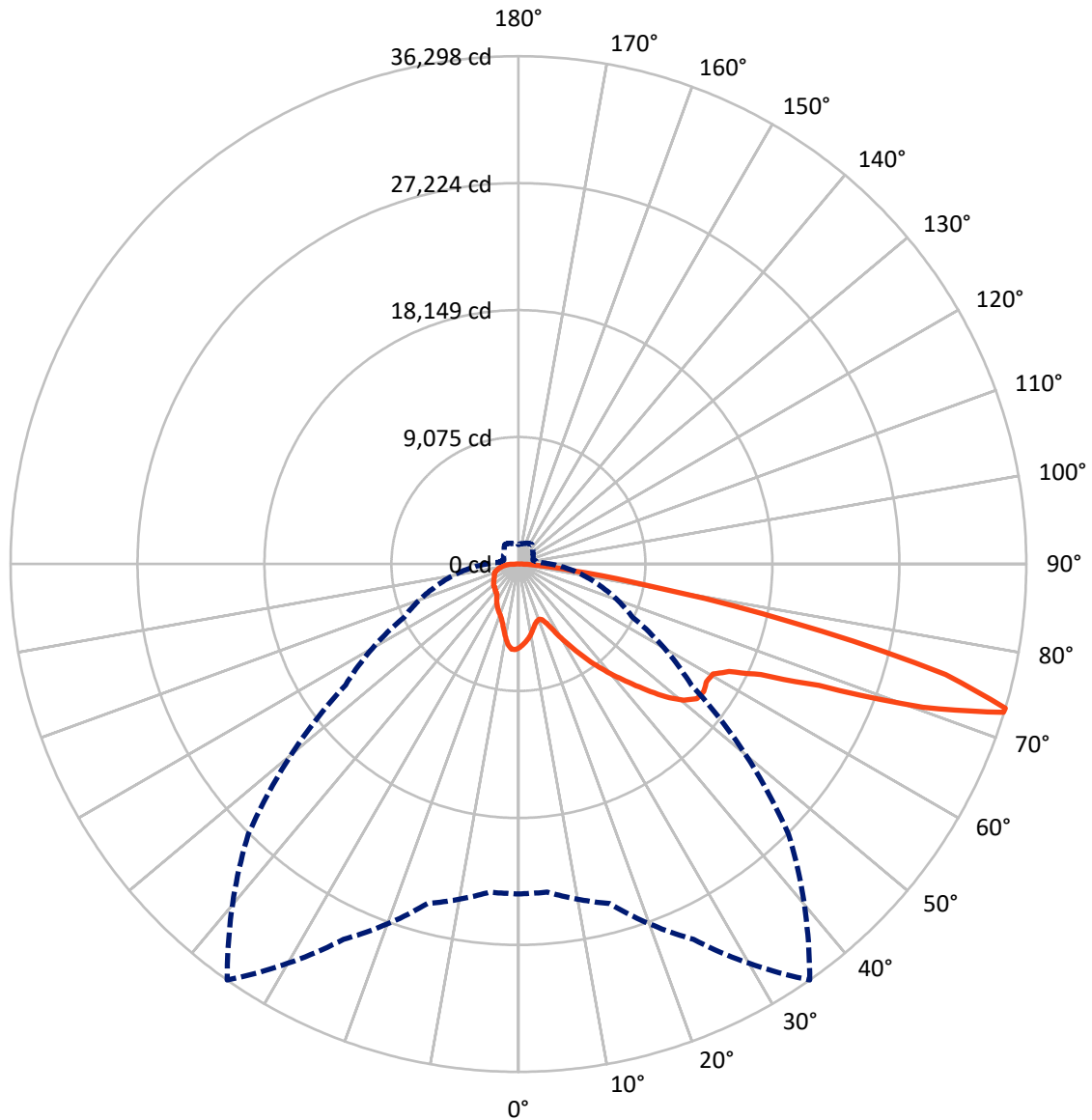
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	7565.0	0.0	7565.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	32098.9	0.0	32098.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	39663.9	0.0	39663.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.0	1.4
10°-20°	1352.6	3.4
20°-30°	2186.7	5.5
30°-40°	3666.8	9.2
40°-50°	5652.2	14.3
50°-60°	7583.1	19.1
60°-70°	10102.2	25.5
70°-80°	7704.9	19.4
80°-90°	873.3	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°	39663.9	100.0
0°-180°	39663.9	100.0



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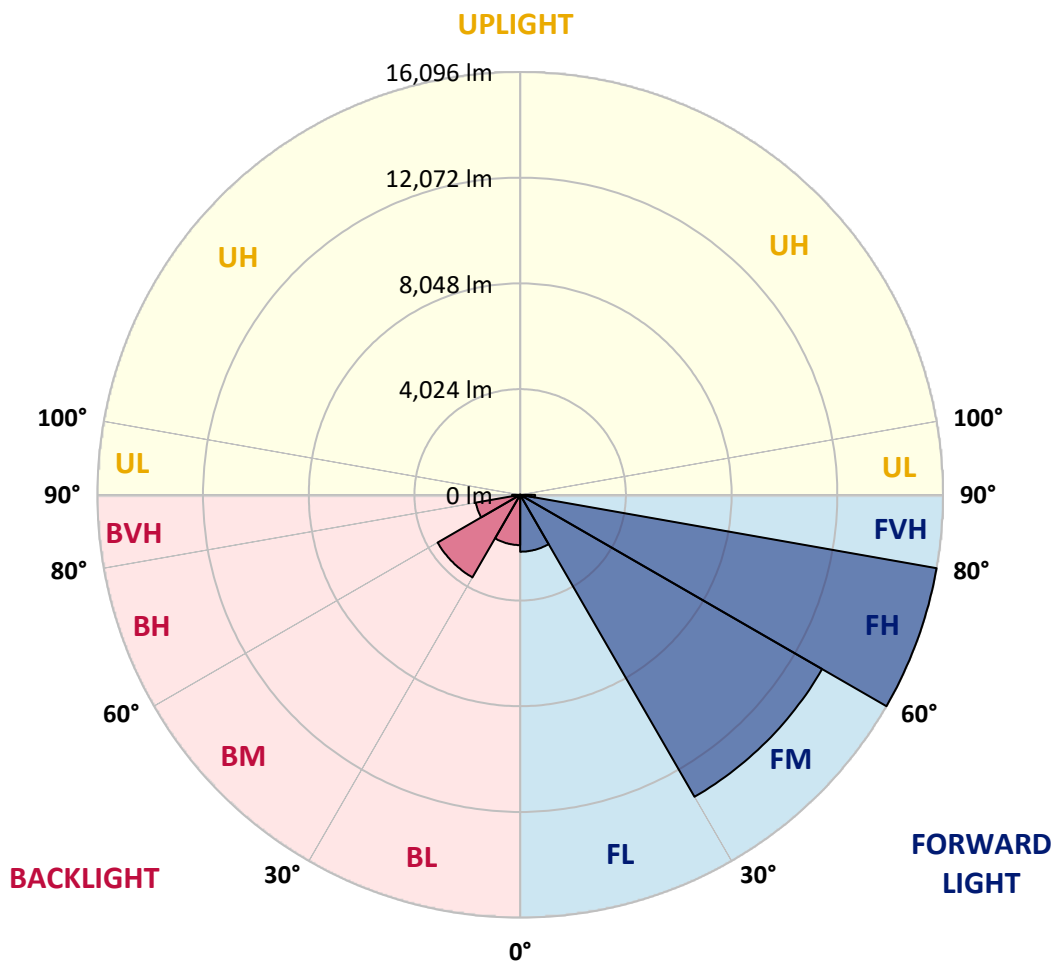
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2167.0	5.5			
FM	(30°-60°)	13271.8	33.5			
FH	(60°-80°)	16095.6	40.6			G5
FVH	(80°-90°)	564.5	1.4			G4/750
BL	(0°-30°)	1914.3	4.8	B3/2500		
BM	(30°-60°)	3630.4	9.2	B3/5000		
BH	(60°-80°)	1711.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	308.8	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°	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5
2.5°	5750.3	5761.8	5748.5	5765.6	5794.1	5824.6	5845.6	5876.0	5910.3	5958.0	5969.3
5°	5479.8	5497.0	5497.0	5527.5	5582.8	5632.3	5678.0	5727.5	5799.8	5881.8	5914.1
7.5°	5182.7	5192.3	5209.4	5255.1	5335.1	5405.6	5470.3	5550.3	5649.3	5758.0	5815.1
10°	4824.6	4837.9	4864.6	4929.4	5037.9	5135.1	5228.4	5338.9	5464.6	5599.8	5672.3
12.5°	4571.4	4567.5	4578.9	4626.5	4721.7	4839.9	4975.1	5116.1	5270.3	5428.4	5516.1
15°	4485.6	4464.7	4420.9	4409.4	4460.9	4578.9	4735.1	4908.4	5093.2	5283.6	5392.3
17.5°	4538.9	4502.7	4382.7	4295.2	4287.5	4377.0	4542.7	4737.0	4950.4	5182.7	5317.9
20°	4874.2	4788.4	4493.2	4289.4	4219.0	4262.7	4407.5	4613.2	4864.6	5173.2	5346.6
22.5°	5676.0	5550.3	4923.7	4544.7	4306.5	4253.2	4361.8	4580.9	4874.2	5291.3	5512.3
25°	6843.6	6664.6	5662.7	5180.8	4689.4	4405.6	4430.4	4655.1	5009.4	5565.6	5832.3
27.5°	7765.5	7649.3	6628.4	6078.0	5386.6	4817.0	4653.2	4841.8	5285.6	6015.1	6287.5
30°	8314.0	8243.6	7660.8	7095.1	6276.0	5472.3	5079.9	5192.3	5718.0	6637.9	6862.7
32.5°	8950.2	8908.4	8622.7	8102.7	7236.0	6333.2	5756.0	5716.0	6297.0	7386.5	7489.3
35°	9609.3	9596.0	9428.3	9055.0	8266.5	7468.4	6653.2	6382.7	6927.4	8163.6	8098.8
37.5°	10222.6	10199.7	10102.6	9885.5	9344.6	8687.4	7567.4	7066.4	7607.4	8906.4	8618.9
40°	11352.1	11173.1	10839.7	10675.9	10434.0	9714.0	8293.2	7704.6	8312.2	9615.0	9068.4
42.5°	12729.2	12437.8	11816.8	11592.1	11557.8	10523.5	8788.4	8323.5	9022.6	10317.8	9510.3
45°	13813.0	13538.7	13003.4	12719.7	12845.4	11256.9	9285.4	8984.6	9754.0	11054.9	9965.5
47.5°	14969.1	14538.7	13830.1	13915.8	14190.1	11950.2	9792.1	9695.0	10555.9	11879.7	10531.2
50°	15011.1	14681.5	14371.0	14883.4	15310.1	12588.2	10426.4	10439.7	11536.8	12917.7	11283.6
52.5°	14140.6	14070.1	14563.4	15369.1	15984.3	13093.0	11148.3	11209.2	12792.1	14110.1	12110.2
55°	13835.8	13755.8	14325.3	15199.6	16075.8	13510.1	11931.1	12041.6	14310.2	15367.2	12915.9
57.5°	14578.7	14401.5	14439.7	15119.6	15853.0	13967.3	12784.4	13007.3	15959.6	16466.2	13433.9
60°	16654.8	16275.8	15555.8	15538.6	15973.0	14653.0	13771.1	14043.5	17673.8	16991.9	13232.1
62.5°	19567.1	19188.1	17839.5	16961.4	16896.7	15784.3	14982.4	15054.9	18664.2	16279.5	11999.7
65°	22719.4	22380.4	20873.7	19633.8	19035.7	17658.6	16390.0	15506.3	18340.5	14319.7	9843.5
67.5°	26546.0	26182.2	24887.0	23742.3	23167.1	20683.2	17378.6	15073.9	16285.3	11093.1	7076.1
70°	29222.1	28850.7	28340.2	29267.9	30675.4	25047.0	17506.3	13315.9	12163.5	7373.1	4259.0
72.5°	25730.8	25557.4	26488.8	30395.4	36258.1	27694.6	15824.3	9695.0	7064.6	3914.2	2464.7
73°	23574.6	23536.6	25125.1	29604.9	36298.1	27286.9	15087.2	9011.2	6058.9	3462.8	2253.3
75°	10645.4	10952.1	14433.9	22612.7	31536.3	22485.2	10618.7	5169.4	3422.8	2392.3	1700.9
77.5°	2558.0	2664.7	4516.1	10738.7	19915.7	13399.6	4811.3	2556.1	2188.5	1689.5	1241.9
80°	1089.5	1125.7	1739.0	3967.5	9376.9	5396.1	2217.0	1712.3	1514.3	1179.1	870.4
82.5°	605.7	643.7	986.6	1800.0	3784.7	1840.0	1352.3	1192.4	996.1	710.4	565.7
85°	342.9	363.8	577.1	1005.7	1603.8	739.0	809.5	792.4	561.9	365.7	278.0
87.5°	161.9	175.2	278.0	466.7	628.6	289.5	411.4	453.4	352.4	222.9	144.7
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°	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5	5986.5
2.5°	5982.7	6017.0	6057.0	6078.0	6097.0	6119.8	6142.7	6142.7	6146.5	6148.4
5°	5940.8	6011.3	6074.2	6100.8	6106.5	6106.5	6100.8	6070.3	6043.7	6055.1
7.5°	5853.2	5956.0	6009.3	5999.8	5927.5	5843.7	5773.2	5687.5	5643.6	5636.0
10°	5727.5	5845.6	5855.1	5759.8	5580.8	5401.8	5253.2	5108.4	5039.9	5022.7
12.5°	5588.4	5697.0	5636.0	5439.8	5152.3	4891.3	4702.7	4556.1	4491.3	4474.2
15°	5476.1	5550.3	5396.1	5087.4	4725.6	4449.4	4293.2	4184.7	4139.0	4125.6
17.5°	5417.0	5432.3	5150.4	4733.2	4348.5	4118.0	4020.8	3969.5	3952.3	3942.8
20°	5445.6	5338.9	4916.1	4403.7	4039.9	3878.0	3855.1	3841.8	3838.0	3832.3
22.5°	5588.4	5310.3	4700.9	4091.3	3769.5	3699.0	3718.0	3716.1	3712.3	3708.5
25°	5843.7	5335.1	4491.3	3794.2	3542.8	3527.5	3561.8	3561.8	3546.6	3546.6
27.5°	6180.8	5386.6	4257.0	3512.3	3337.1	3338.9	3365.6	3358.0	3340.9	3329.4
30°	6592.2	5418.9	3982.8	3258.9	3144.7	3137.1	3144.7	3112.3	3060.9	3057.1
32.5°	7013.1	5378.9	3664.6	3034.2	2940.9	2923.7	2918.1	2872.3	2813.2	2796.1
35°	7394.1	5232.3	3340.9	2855.2	2746.6	2708.5	2735.2	2719.9	2666.6	2653.2
37.5°	7672.2	4959.9	3049.4	2697.1	2607.5	2598.0	2615.2	2620.9	2558.0	2544.7
40°	7858.8	4590.4	2799.9	2563.7	2580.9	2544.7	2487.5	2447.5	2428.5	2422.8
42.5°	8009.3	4205.7	2590.4	2500.9	2586.6	2481.9	2358.0	2293.3	2327.5	2342.8
45°	8182.7	3830.3	2415.2	2422.8	2558.0	2409.5	2268.5	2205.7	2219.0	2222.8
47.5°	8420.7	3373.3	2226.7	2297.0	2462.8	2359.9	2213.3	2123.7	2060.9	2032.3
50°	8750.2	2832.3	2030.5	2156.2	2369.5	2323.7	2127.5	2032.3	1916.2	1889.5
52.5°	8978.8	2327.5	1868.5	2038.0	2285.7	2251.4	2059.0	1935.2	1813.3	1790.5
55°	8855.0	1933.3	1727.6	1906.6	2175.2	2161.8	2001.8	1836.1	1740.9	1721.8
57.5°	8236.0	1683.8	1619.0	1782.8	2040.0	2085.7	1925.7	1752.3	1683.8	1670.5
60°	7055.1	1527.6	1550.5	1699.0	1929.5	2009.5	1849.5	1706.6	1660.9	1651.3
62.5°	5474.1	1422.8	1499.0	1638.1	1843.8	1956.2	1807.6	1700.9	1683.8	1672.3
65°	3921.8	1339.0	1443.8	1577.1	1765.7	1906.6	1792.3	1693.3	1697.1	1687.6
67.5°	2664.7	1264.8	1377.1	1508.5	1689.5	1862.8	1771.3	1666.6	1714.3	1702.8
70°	1864.7	1192.4	1299.0	1420.9	1594.3	1801.8	1733.3	1626.6	1622.8	1577.1
72.5°	1455.2	1097.1	1192.4	1299.0	1472.3	1716.1	1657.1	1537.1	1474.3	1426.6
73°	1388.6	1074.3	1165.7	1272.3	1445.6	1695.2	1636.1	1512.3	1441.8	1398.1
75°	1148.6	975.2	1059.1	1154.3	1331.4	1596.1	1533.3	1400.0	1310.4	1283.8
77.5°	902.9	834.2	914.3	999.9	1173.3	1451.4	1380.9	1253.3	1203.8	1180.9
80°	668.6	691.4	761.9	838.1	1017.1	1297.1	1234.3	1106.6	1327.6	1272.3
82.5°	470.5	523.8	588.6	657.1	853.3	1146.6	1070.4	939.1	971.4	807.6
85°	278.0	342.9	403.8	462.9	615.2	950.4	883.8	748.6	613.4	584.7
87.5°	161.9	190.5	207.7	268.5	422.9	716.2	622.9	554.2	318.1	215.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)