

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: P269596

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269596
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA 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: 45739 lumens
Efficiency: N/A
Efficacy: 89.5 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): 511
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

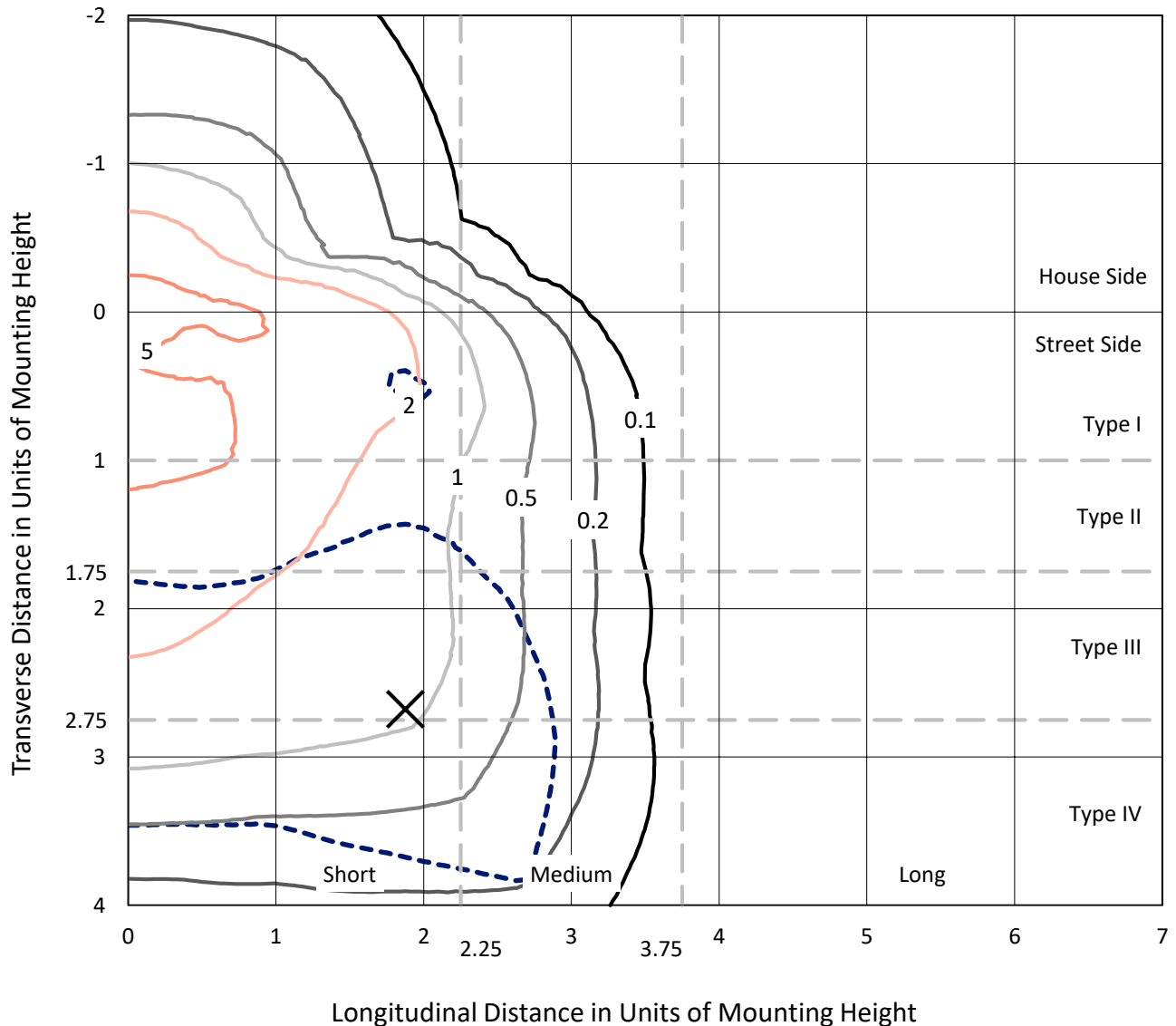


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

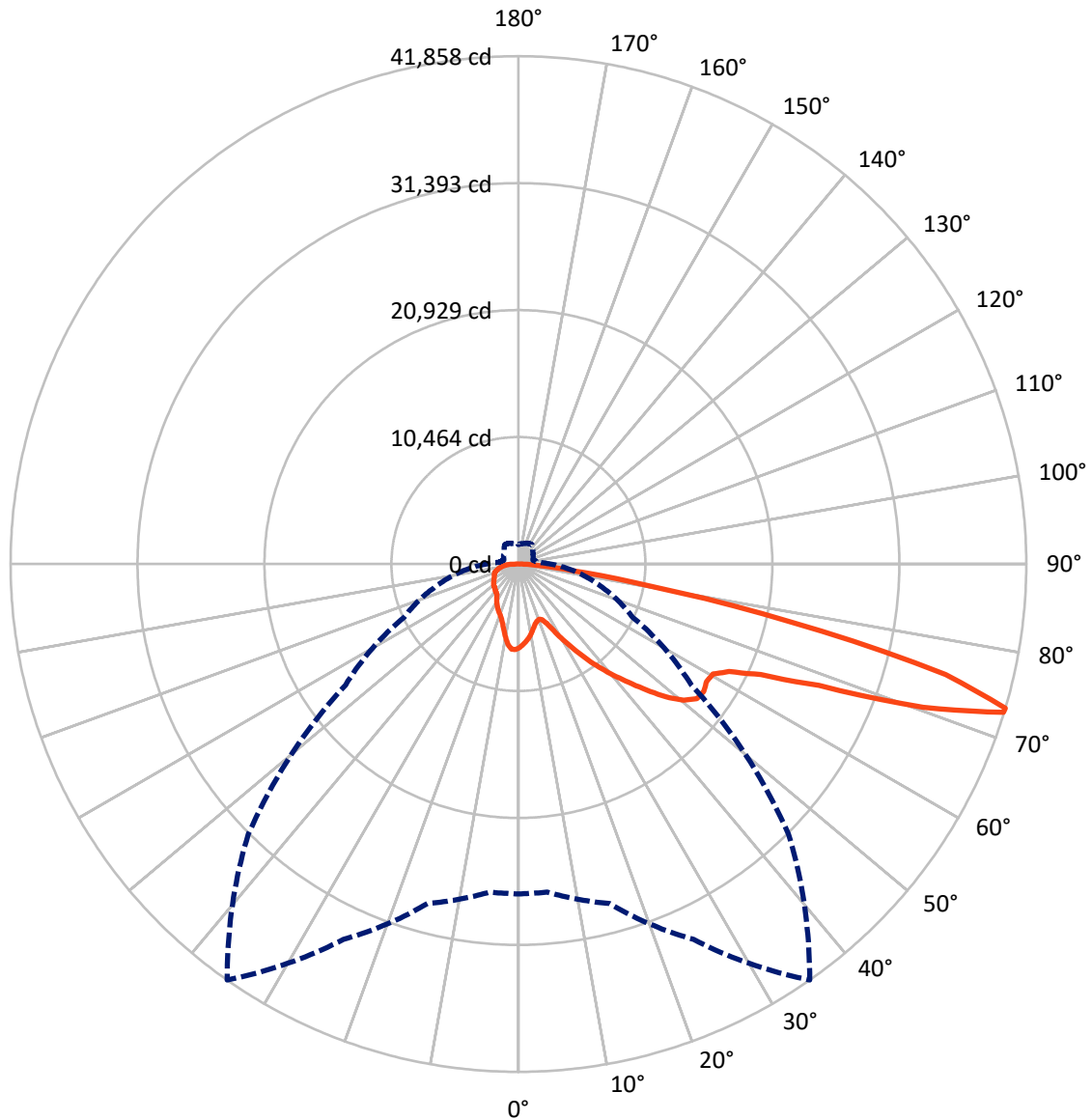


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Non-Cutoff

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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	8723.7	0.0	8723.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	37015.3	0.0	37015.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	45739.0	0.0	45739.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.0	1.4
10°-20°	1559.8	3.4
20°-30°	2521.7	5.5
30°-40°	4228.5	9.2
40°-50°	6518.0	14.3
50°-60°	8744.6	19.1
60°-70°	11649.5	25.5
70°-80°	8885.0	19.4
80°-90°	1007.1	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°	45739.0	100.0
0°-180°	45739.0	100.0



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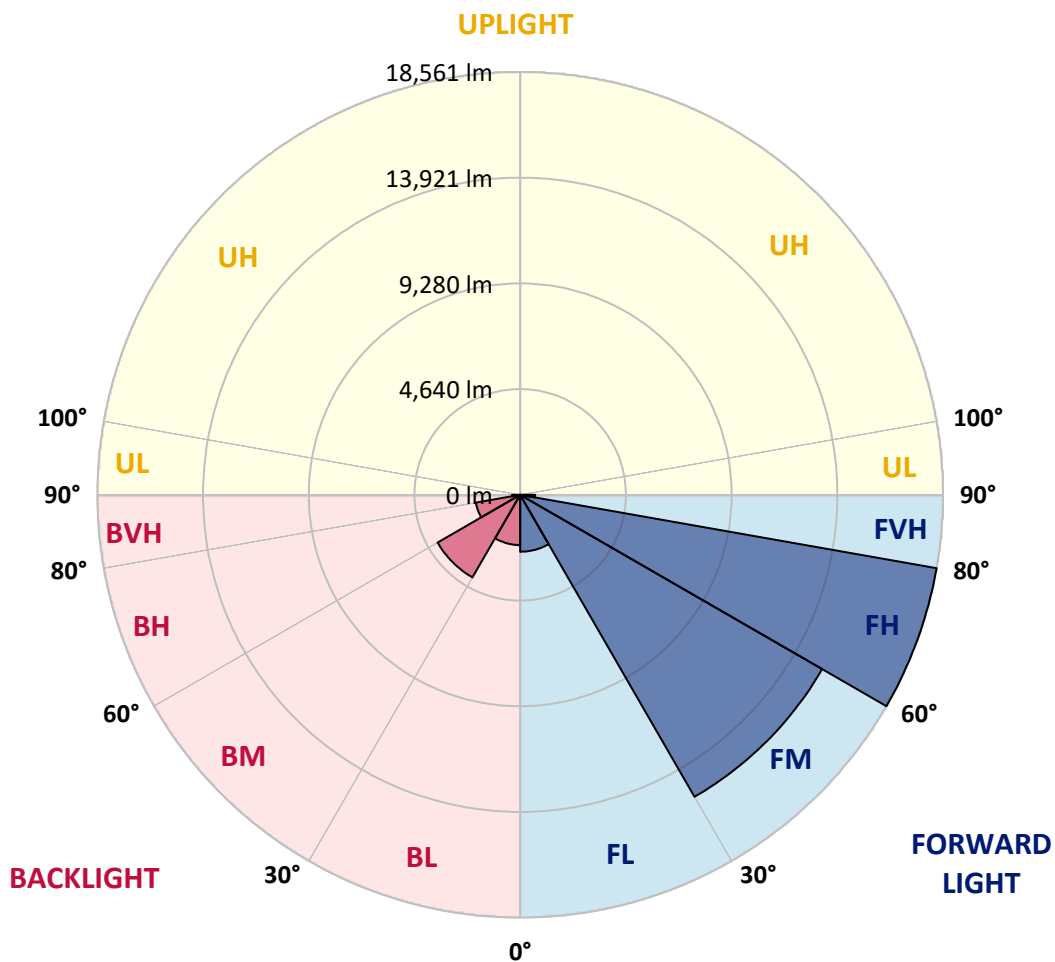
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2498.9	5.5			
FM	(30°-60°)	15304.6	33.5			
FH	(60°-80°)	18560.9	40.6			G5
FVH	(80°-90°)	651.0	1.4			G4/750
BL	(0°-30°)	2207.5	4.8	B3/2500		
BM	(30°-60°)	4186.4	9.2	B3/5000		
BH	(60°-80°)	1973.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	356.1	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°	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5
2.5°	6631.1	6644.3	6629.0	6648.6	6681.7	6716.7	6740.9	6776.1	6815.6	6870.4	6883.6
5°	6319.1	6339.0	6339.0	6374.2	6437.9	6494.8	6547.7	6604.7	6688.2	6782.7	6819.9
7.5°	5976.6	5987.6	6007.2	6060.0	6152.2	6233.5	6308.2	6400.5	6514.7	6639.8	6705.8
10°	5563.7	5579.0	5609.7	5684.5	5809.6	5921.6	6029.2	6156.7	6301.6	6457.6	6541.0
12.5°	5271.4	5267.1	5280.2	5335.2	5444.9	5581.2	5737.1	5899.7	6077.6	6259.8	6360.9
15°	5172.6	5148.5	5097.9	5084.8	5144.1	5280.2	5460.3	5660.2	5873.3	6092.9	6218.2
17.5°	5234.2	5192.5	5054.0	4953.0	4944.2	5047.4	5238.6	5462.6	5708.5	5976.6	6132.5
20°	5620.8	5521.9	5181.5	4946.3	4865.1	4915.6	5082.6	5319.9	5609.7	5965.6	6165.4
22.5°	6545.4	6400.5	5677.7	5240.7	4966.2	4904.7	5029.9	5282.5	5620.8	6101.7	6356.5
25°	7891.8	7685.4	6530.0	5974.4	5407.6	5080.4	5108.9	5368.1	5776.7	6418.0	6725.5
27.5°	8954.9	8820.9	7643.7	7008.8	6211.6	5554.8	5365.9	5583.3	6095.1	6936.4	7250.5
30°	9587.5	9506.3	8834.1	8181.8	7237.3	6310.5	5857.9	5987.6	6593.6	7654.5	7913.8
32.5°	10321.0	10272.7	9943.2	9343.7	8344.3	7303.2	6637.7	6591.6	7261.4	8517.8	8636.5
35°	11081.1	11065.7	10872.5	10441.9	9532.5	8612.3	7672.2	7360.4	7988.4	9414.0	9339.3
37.5°	11788.4	11762.0	11649.9	11399.6	10775.8	10018.0	8726.5	8148.9	8772.6	10270.6	9938.9
40°	13090.8	12884.4	12499.9	12311.1	12032.2	11201.9	9563.4	8884.6	9585.4	11087.7	10457.3
42.5°	14678.8	14342.8	13626.7	13367.6	13328.1	12135.4	10134.4	9598.5	10404.6	11898.2	10966.9
45°	15928.7	15612.4	14995.1	14667.9	14812.8	12981.0	10707.6	10360.6	11247.9	12748.1	11491.7
47.5°	17261.9	16765.4	15948.4	16047.2	16363.5	13780.4	11292.0	11179.9	12172.8	13699.2	12144.1
50°	17310.2	16930.3	16572.2	17163.0	17655.1	14516.3	12023.4	12038.7	13303.9	14896.4	13011.8
52.5°	16306.5	16225.1	16794.1	17723.1	18432.6	15098.4	12855.9	12926.2	14751.3	16271.3	13965.1
55°	15954.9	15862.7	16519.6	17527.6	18538.1	15579.5	13758.5	13885.9	16502.0	17721.0	14894.1
57.5°	16811.6	16607.3	16651.3	17435.5	18281.0	16106.6	14742.5	14999.5	18404.0	18988.4	15491.5
60°	19205.8	18768.6	17938.4	17918.6	18419.3	16897.3	15880.2	16194.5	20380.8	19594.5	15258.7
62.5°	22564.0	22127.1	20571.9	19559.3	19484.6	18201.9	17277.2	17360.7	21523.0	18773.0	13837.6
65°	26199.2	25808.2	24070.9	22641.1	21951.3	20363.3	18900.3	17881.3	21149.5	16513.0	11351.3
67.5°	30611.9	30192.4	28698.8	27378.7	26715.5	23851.3	20040.4	17382.7	18779.6	12792.1	8159.8
70°	33697.8	33269.5	32681.0	33750.6	35373.7	28883.4	20187.6	15355.4	14026.6	8502.5	4911.3
72.5°	29671.8	29472.0	30546.0	35051.0	41811.6	31936.4	18248.1	11179.9	8146.5	4513.8	2842.1
73°	27185.4	27141.5	28973.4	34139.4	41857.8	31466.3	17398.1	10391.5	6986.8	3993.1	2598.3
75°	12276.0	12629.6	16644.7	26076.2	36366.7	25929.0	12245.2	5961.2	3947.1	2758.8	1961.4
77.5°	2949.9	3072.8	5207.7	12383.6	22966.1	15452.0	5548.2	2947.6	2523.7	1948.2	1432.1
80°	1256.4	1298.1	2005.3	4575.2	10813.1	6222.5	2556.7	1974.7	1746.1	1359.7	1003.8
82.5°	698.4	742.4	1137.8	2075.7	4364.3	2121.7	1559.5	1374.9	1148.8	819.3	652.3
85°	395.3	419.5	665.6	1159.7	1849.4	852.2	933.5	913.8	647.9	421.8	320.6
87.5°	186.7	202.1	320.6	538.2	724.8	333.9	474.5	522.8	406.4	256.9	166.9
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°	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5	6903.5
2.5°	6899.1	6938.6	6984.7	7008.8	7030.9	7057.2	7083.6	7083.6	7087.9	7090.1
5°	6850.7	6932.0	7004.4	7035.3	7041.9	7041.9	7035.3	7000.1	6969.3	6982.5
7.5°	6749.7	6868.4	6929.7	6918.8	6835.4	6738.6	6657.3	6558.5	6508.1	6499.2
10°	6604.7	6740.9	6751.9	6642.1	6435.5	6229.1	6057.8	5890.8	5811.9	5792.0
12.5°	6444.4	6569.6	6499.2	6273.0	5941.4	5640.5	5423.1	5253.8	5179.2	5159.4
15°	6314.7	6400.5	6222.5	5866.7	5449.4	5130.8	4950.7	4825.5	4772.9	4757.6
17.5°	6246.8	6264.3	5939.2	5458.2	5014.5	4748.7	4636.7	4577.5	4557.6	4546.6
20°	6279.6	6156.7	5669.1	5078.2	4658.7	4471.9	4445.6	4430.3	4425.8	4419.2
22.5°	6444.4	6123.7	5420.8	4718.0	4346.8	4265.5	4287.5	4285.3	4280.9	4276.6
25°	6738.6	6152.2	5179.2	4375.4	4085.4	4067.9	4107.4	4107.4	4089.9	4089.9
27.5°	7127.5	6211.6	4909.1	4050.3	3848.2	3850.3	3881.1	3872.4	3852.7	3839.4
30°	7601.8	6248.9	4592.8	3758.1	3626.4	3617.6	3626.4	3589.0	3529.7	3525.3
32.5°	8087.4	6202.7	4225.9	3499.0	3391.3	3371.6	3365.0	3312.2	3244.1	3224.3
35°	8526.6	6033.6	3852.7	3292.5	3167.2	3123.3	3154.0	3136.5	3075.0	3059.6
37.5°	8847.2	5719.6	3516.5	3110.2	3006.9	2995.9	3015.7	3022.3	2949.9	2934.5
40°	9062.6	5293.4	3228.8	2956.4	2976.2	2934.5	2868.6	2822.5	2800.5	2793.9
42.5°	9236.1	4849.8	2987.1	2884.0	2982.8	2862.0	2719.2	2644.5	2684.0	2701.7
45°	9435.9	4417.1	2785.0	2793.9	2949.9	2778.5	2616.0	2543.6	2558.8	2563.3
47.5°	9710.5	3889.9	2567.6	2648.9	2840.0	2721.3	2552.3	2449.0	2376.6	2343.6
50°	10090.5	3266.1	2341.4	2486.4	2732.4	2679.6	2453.5	2343.6	2209.7	2178.8
52.5°	10354.0	2684.0	2154.8	2350.1	2635.7	2596.2	2374.4	2231.6	2091.1	2064.7
55°	10211.4	2229.5	1992.3	2198.6	2508.3	2492.9	2308.5	2117.3	2007.5	1985.7
57.5°	9497.4	1941.6	1866.9	2056.0	2352.4	2405.1	2220.6	2020.7	1941.6	1926.2
60°	8135.6	1761.5	1787.8	1959.3	2225.0	2317.3	2132.8	1967.9	1915.2	1904.3
62.5°	6312.6	1640.8	1728.6	1889.0	2126.2	2255.7	2084.4	1961.4	1941.6	1928.5
65°	4522.4	1544.0	1664.9	1818.7	2036.1	2198.6	2066.9	1952.6	1957.0	1946.1
67.5°	3072.8	1458.5	1588.1	1739.6	1948.2	2148.1	2042.7	1922.0	1976.8	1963.7
70°	2150.4	1374.9	1498.0	1638.6	1838.4	2077.8	1998.8	1875.8	1871.3	1818.7
72.5°	1678.0	1265.2	1374.9	1498.0	1697.8	1979.0	1911.0	1772.5	1700.0	1645.2
73°	1601.1	1238.9	1344.3	1467.2	1667.2	1954.8	1886.7	1744.0	1662.8	1612.2
75°	1324.5	1124.6	1221.2	1331.1	1535.4	1840.6	1768.1	1614.3	1511.2	1480.3
77.5°	1041.1	962.1	1054.3	1153.2	1352.9	1673.7	1592.4	1445.3	1388.2	1361.8
80°	770.9	797.3	878.6	966.4	1172.8	1495.8	1423.4	1276.1	1530.9	1467.2
82.5°	542.5	604.0	678.7	757.8	984.1	1322.2	1234.5	1082.8	1120.1	931.4
85°	320.6	395.3	465.6	533.8	709.4	1096.0	1019.1	863.2	707.2	674.3
87.5°	186.7	219.6	239.4	309.6	487.6	825.8	718.3	639.1	366.8	248.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)