

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: P269673

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269673
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-09-LED-E1-T4FT-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 46510.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

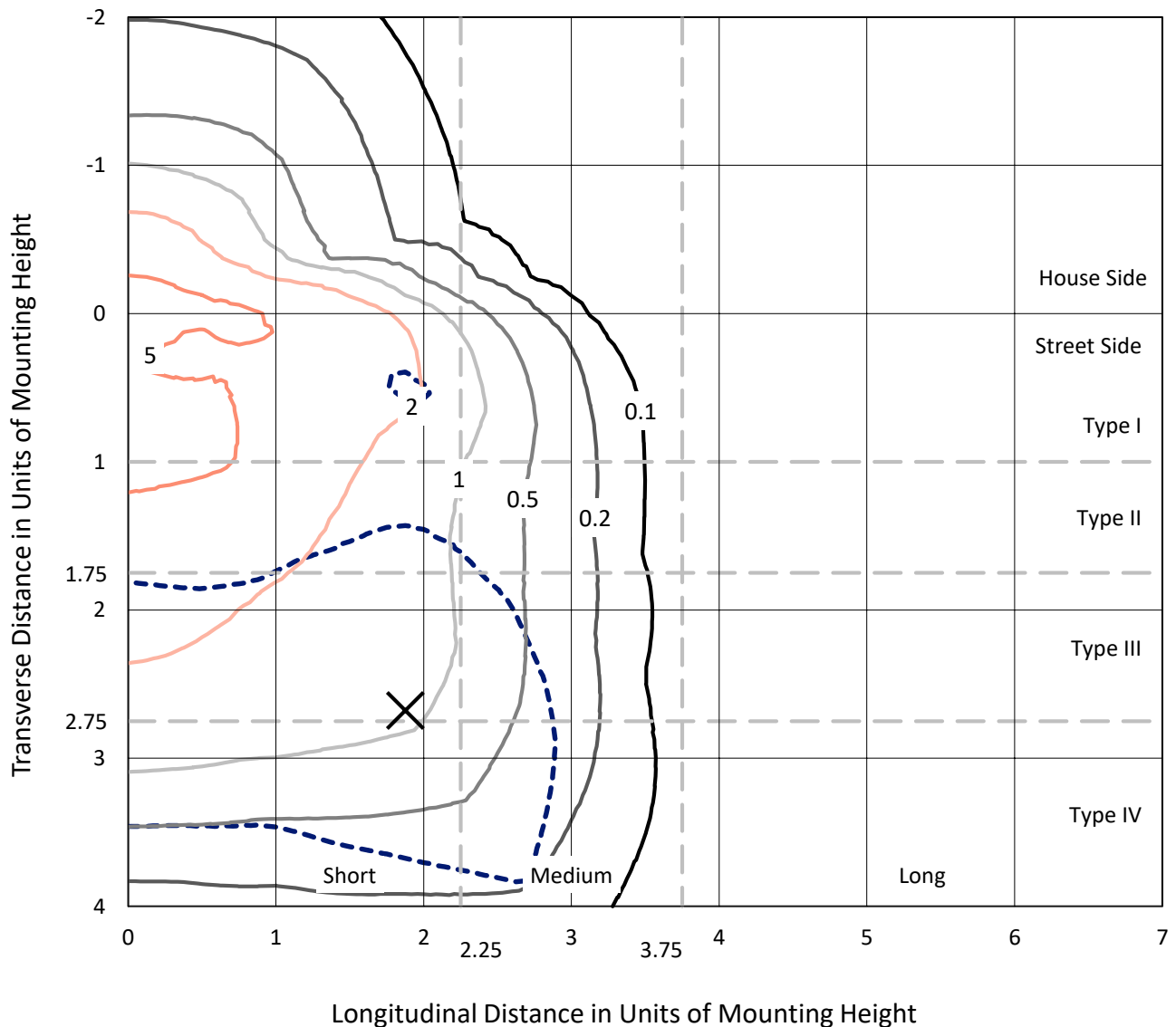


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Iso-Footcandle Lines of Horizontal Illumination

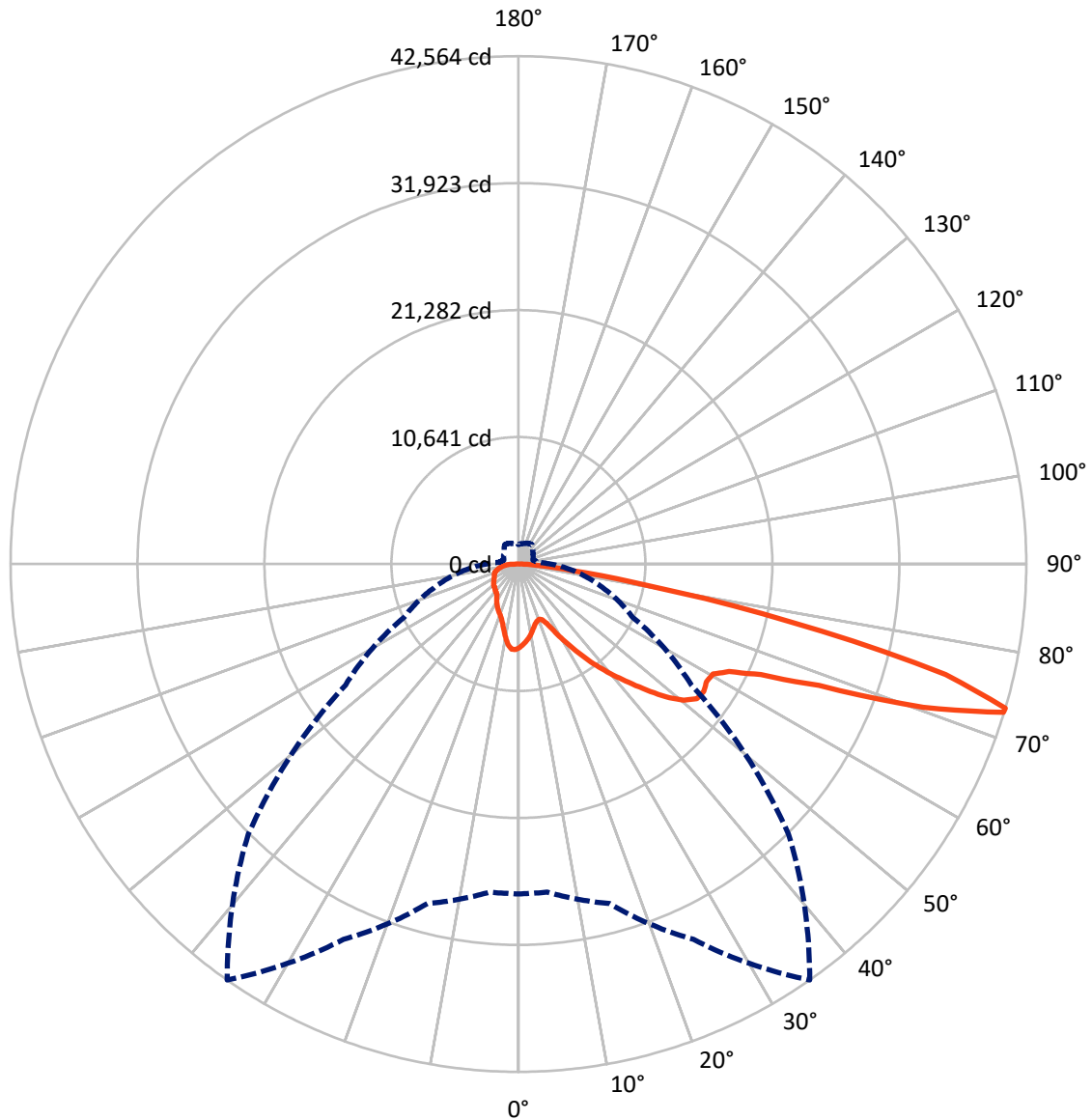
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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	8870.8	0.0	8870.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	37639.6	0.0	37639.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	46510.4	0.0	46510.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.5	1.4
10°-20°	1586.1	3.4
20°-30°	2564.2	5.5
30°-40°	4299.8	9.2
40°-50°	6627.9	14.3
50°-60°	8892.0	19.1
60°-70°	11846.0	25.5
70°-80°	9034.9	19.4
80°-90°	1024.1	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°	46510.4	100.0
0°-180°	46510.4	100.0



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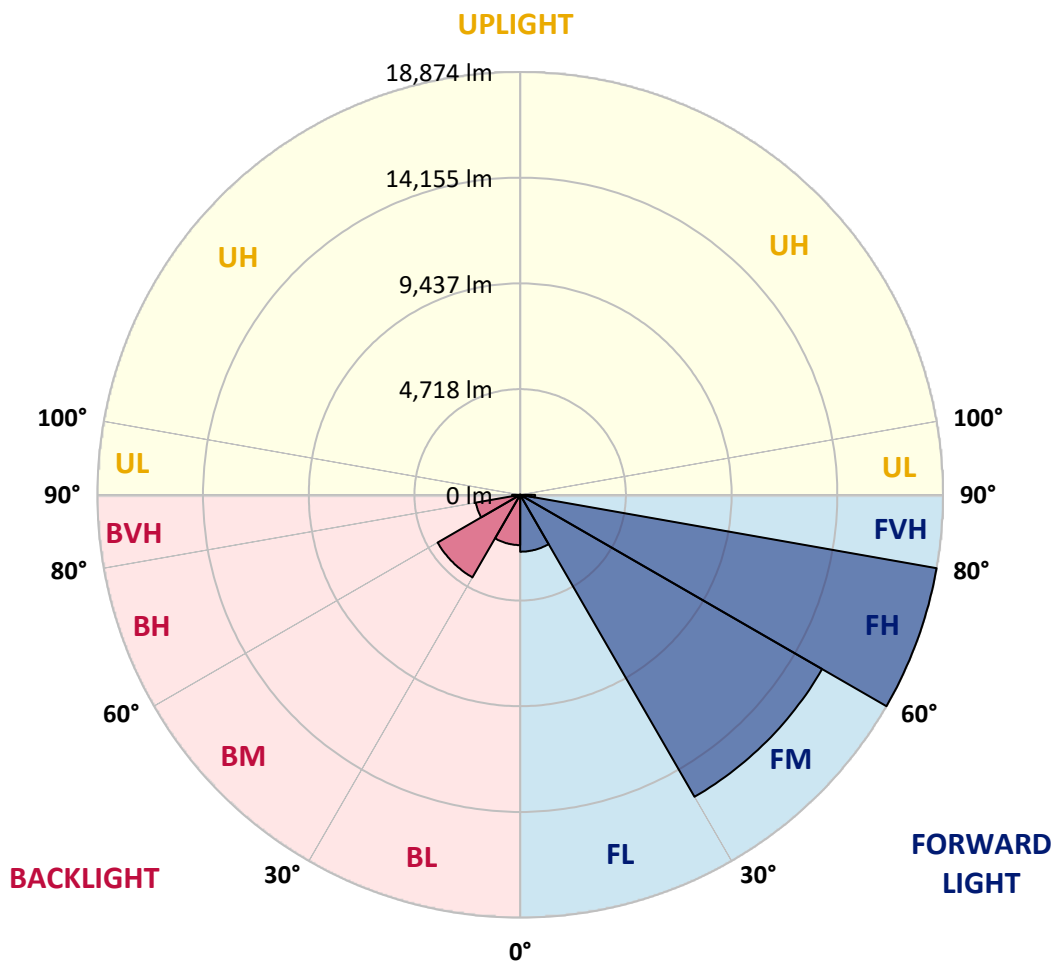
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2541.0	5.5			
FM	(30°-60°)	15562.7	33.5			
FH	(60°-80°)	18873.9	40.6			G5
FVH	(80°-90°)	661.9	1.4			G4/750
BL	(0°-30°)	2244.7	4.8	B3/2500		
BM	(30°-60°)	4257.0	9.2	B3/5000		
BH	(60°-80°)	2007.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	362.1	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°	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9
2.5°	6742.9	6756.3	6740.7	6760.7	6794.3	6830.1	6854.5	6890.3	6930.6	6986.4	6999.8
5°	6425.8	6445.9	6445.9	6481.6	6546.4	6604.5	6658.1	6716.1	6801.0	6897.0	6934.9
7.5°	6077.4	6088.5	6108.7	6162.3	6256.1	6338.7	6414.5	6508.4	6624.6	6751.8	6818.9
10°	5657.4	5673.1	5704.3	5780.2	5907.7	6021.5	6130.9	6260.5	6407.9	6566.5	6651.3
12.5°	5360.4	5356.0	5369.3	5425.1	5536.9	5675.3	5834.0	5999.2	6180.1	6365.5	6468.2
15°	5259.8	5235.3	5183.8	5170.6	5230.8	5369.3	5552.5	5755.7	5972.3	6195.7	6323.0
17.5°	5322.4	5280.0	5139.3	5036.5	5027.6	5132.6	5326.9	5554.7	5804.8	6077.4	6235.9
20°	5715.6	5614.9	5268.7	5029.8	4947.1	4998.6	5168.3	5409.6	5704.3	6066.2	6269.5
22.5°	6655.8	6508.4	5773.5	5329.1	5049.9	4987.4	5114.7	5371.5	5715.6	6204.7	6463.8
25°	8025.0	7815.0	6640.2	6075.1	5498.9	5166.1	5195.1	5458.7	5874.0	6526.2	6838.9
27.5°	9105.9	8969.8	7772.6	7127.2	6316.3	5648.5	5456.5	5677.6	6197.9	7053.4	7372.7
30°	9749.1	9666.5	8983.1	8319.7	7359.4	6416.9	5956.8	6088.5	6704.9	7783.8	8047.2
32.5°	10495.2	10446.0	10111.1	9501.4	8485.0	7426.4	6749.7	6702.8	7383.9	8661.5	8782.1
35°	11268.0	11252.3	11055.8	10618.1	9693.4	8757.5	7801.6	7484.5	8123.3	9572.8	9496.8
37.5°	11987.2	11960.4	11846.5	11591.8	10957.5	10187.0	8873.6	8286.2	8920.6	10443.9	10106.6
40°	13311.7	13101.7	12710.7	12518.7	12235.0	11390.8	9724.6	9034.4	9747.0	11274.6	10633.6
42.5°	14926.4	14584.7	13856.5	13593.1	13552.9	12340.0	10305.4	9760.4	10580.1	12098.8	11151.7
45°	16197.2	15875.7	15248.1	14915.3	15062.7	13200.0	10888.3	10535.4	11437.7	12963.3	11685.6
47.5°	17553.1	17048.3	16217.5	16317.9	16639.6	14012.9	11482.3	11368.5	12378.0	13930.2	12349.0
50°	17602.2	17215.7	16851.8	17452.5	17952.8	14761.2	12226.1	12241.8	13528.2	15147.6	13231.2
52.5°	16581.5	16498.8	17077.3	18022.1	18743.5	15353.0	13072.7	13144.1	15000.2	16545.7	14200.5
55°	16224.1	16130.2	16798.1	17823.4	18850.8	15842.1	13990.7	14120.2	16780.2	18019.8	15145.3
57.5°	17095.1	16887.4	16932.2	17729.5	18589.3	16378.2	14991.3	15252.5	18714.4	19308.6	15752.9
60°	19529.7	19085.2	18241.0	18220.9	18730.1	17182.3	16148.1	16467.5	20724.5	19924.9	15516.1
62.5°	22944.7	22500.1	20918.9	19889.3	19813.3	18508.9	17568.6	17653.5	21885.9	19089.7	14071.1
65°	26641.2	26243.5	24476.8	23022.8	22321.5	20706.7	19219.1	18182.9	21506.3	16791.4	11542.7
67.5°	31128.2	30701.6	29182.8	27840.5	27166.1	24253.5	20378.4	17675.9	19096.3	13007.8	8297.5
70°	34266.2	33830.7	33232.2	34319.8	35970.4	29370.4	20528.1	15614.3	14263.1	8645.8	4994.0
72.5°	30172.4	29969.1	31061.2	35642.1	42516.8	32474.9	18555.8	11368.5	8284.0	4589.8	2890.1
73°	27643.9	27599.3	29462.0	34715.2	42563.8	31997.0	17691.5	10566.7	7104.8	4060.5	2642.3
75°	12482.9	12842.6	16925.4	26516.0	36979.9	26366.4	12451.8	6061.8	4013.5	2805.2	1994.4
77.5°	2999.6	3124.7	5295.6	12592.4	23353.3	15712.7	5641.9	2997.4	2566.3	1981.1	1456.2
80°	1277.6	1320.0	2039.2	4652.3	10995.6	6327.5	2599.8	2007.9	1775.6	1382.5	1020.7
82.5°	710.3	754.9	1156.9	2110.7	4437.9	2157.5	1585.8	1398.1	1168.2	833.1	663.4
85°	402.0	426.5	676.8	1179.3	1880.6	866.5	949.1	929.1	658.8	428.9	326.1
87.5°	189.8	205.5	326.1	547.2	737.1	339.5	482.4	531.5	413.2	261.2	169.7
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°	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9	7019.9
2.5°	7015.5	7055.6	7102.4	7127.2	7149.4	7176.2	7203.0	7203.0	7207.6	7209.7
5°	6966.3	7048.9	7122.7	7153.9	7160.6	7160.6	7153.9	7118.1	7086.9	7100.3
7.5°	6863.5	6984.1	7046.7	7035.5	6950.6	6852.4	6769.7	6669.1	6617.9	6608.9
10°	6716.1	6854.5	6865.7	6754.0	6544.2	6334.2	6159.9	5990.3	5909.8	5889.6
12.5°	6553.0	6680.3	6608.9	6378.9	6041.6	5735.6	5514.4	5342.5	5266.6	5246.6
15°	6421.4	6508.4	6327.5	5965.6	5541.4	5217.4	5034.3	4907.0	4853.5	4837.7
17.5°	6352.1	6369.9	6039.3	5550.3	5099.0	4828.7	4714.9	4654.6	4634.4	4623.3
20°	6385.5	6260.5	5764.7	5163.8	4737.2	4547.4	4520.6	4505.0	4500.5	4493.9
22.5°	6553.0	6227.1	5512.3	4797.6	4420.1	4337.5	4359.7	4357.6	4353.0	4348.6
25°	6852.4	6256.1	5266.6	4449.1	4154.3	4136.4	4176.6	4176.6	4158.8	4158.8
27.5°	7247.6	6316.3	4991.8	4118.5	3913.0	3915.4	3946.6	3937.6	3917.6	3904.2
30°	7730.2	6354.3	4670.3	3821.5	3687.5	3678.6	3687.5	3649.5	3589.2	3584.7
32.5°	8223.8	6307.4	4297.2	3557.9	3448.6	3428.4	3421.7	3368.1	3298.8	3278.8
35°	8670.4	6135.5	3917.6	3348.1	3220.8	3176.0	3207.3	3189.4	3126.9	3111.3
37.5°	8996.5	5816.0	3575.9	3162.7	3057.7	3046.5	3066.5	3073.3	2999.6	2983.9
40°	9215.4	5382.7	3283.2	3006.3	3026.4	2983.9	2916.9	2870.1	2847.6	2841.0
42.5°	9391.8	4931.5	3037.6	2932.5	3033.0	2910.2	2765.1	2689.2	2729.3	2747.1
45°	9595.1	4491.5	2832.0	2841.0	2999.6	2825.3	2660.2	2586.4	2602.0	2606.5
47.5°	9874.3	3955.4	2611.0	2693.6	2888.0	2767.3	2595.4	2490.3	2416.6	2383.2
50°	10260.7	3321.3	2380.9	2528.3	2778.5	2724.9	2494.9	2383.2	2246.9	2215.6
52.5°	10528.7	2729.3	2191.1	2389.9	2680.3	2639.9	2414.5	2269.2	2126.3	2099.5
55°	10383.5	2267.1	2025.8	2235.7	2550.6	2534.9	2347.5	2153.1	2041.4	2019.1
57.5°	9657.6	1974.5	1898.5	2090.5	2392.0	2445.6	2258.1	2054.9	1974.5	1958.8
60°	8272.9	1791.3	1818.1	1992.4	2262.6	2356.3	2168.7	2001.2	1947.6	1936.4
62.5°	6419.1	1668.4	1757.8	1920.8	2162.0	2293.8	2119.6	1994.4	1974.5	1961.0
65°	4598.8	1570.1	1692.9	1849.3	2070.5	2235.7	2101.8	1985.6	1990.0	1978.8
67.5°	3124.7	1483.0	1614.9	1768.9	1981.1	2184.4	2077.2	1954.4	2010.1	1996.8
70°	2186.6	1398.1	1523.3	1666.1	1869.5	2113.0	2032.4	1907.5	1902.9	1849.3
72.5°	1706.4	1286.6	1398.1	1523.3	1726.5	2012.4	1943.2	1802.4	1728.7	1673.0
73°	1628.2	1259.8	1367.0	1491.9	1695.2	1987.8	1918.6	1773.4	1690.8	1639.3
75°	1346.7	1143.5	1241.8	1353.4	1561.3	1871.7	1798.0	1641.7	1536.6	1505.4
77.5°	1058.7	978.3	1072.0	1172.6	1375.8	1701.8	1619.3	1469.6	1411.5	1384.7
80°	784.0	810.8	893.5	982.7	1192.7	1521.0	1447.3	1297.6	1556.8	1491.9
82.5°	551.6	614.3	690.2	770.6	1000.6	1344.6	1255.2	1101.1	1139.1	947.1
85°	326.1	402.0	473.4	542.8	721.3	1114.4	1036.4	877.7	719.3	685.6
87.5°	189.8	223.4	243.4	314.9	495.9	839.7	730.3	650.0	372.9	252.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)