

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: P191537

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191537
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 54762.6 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

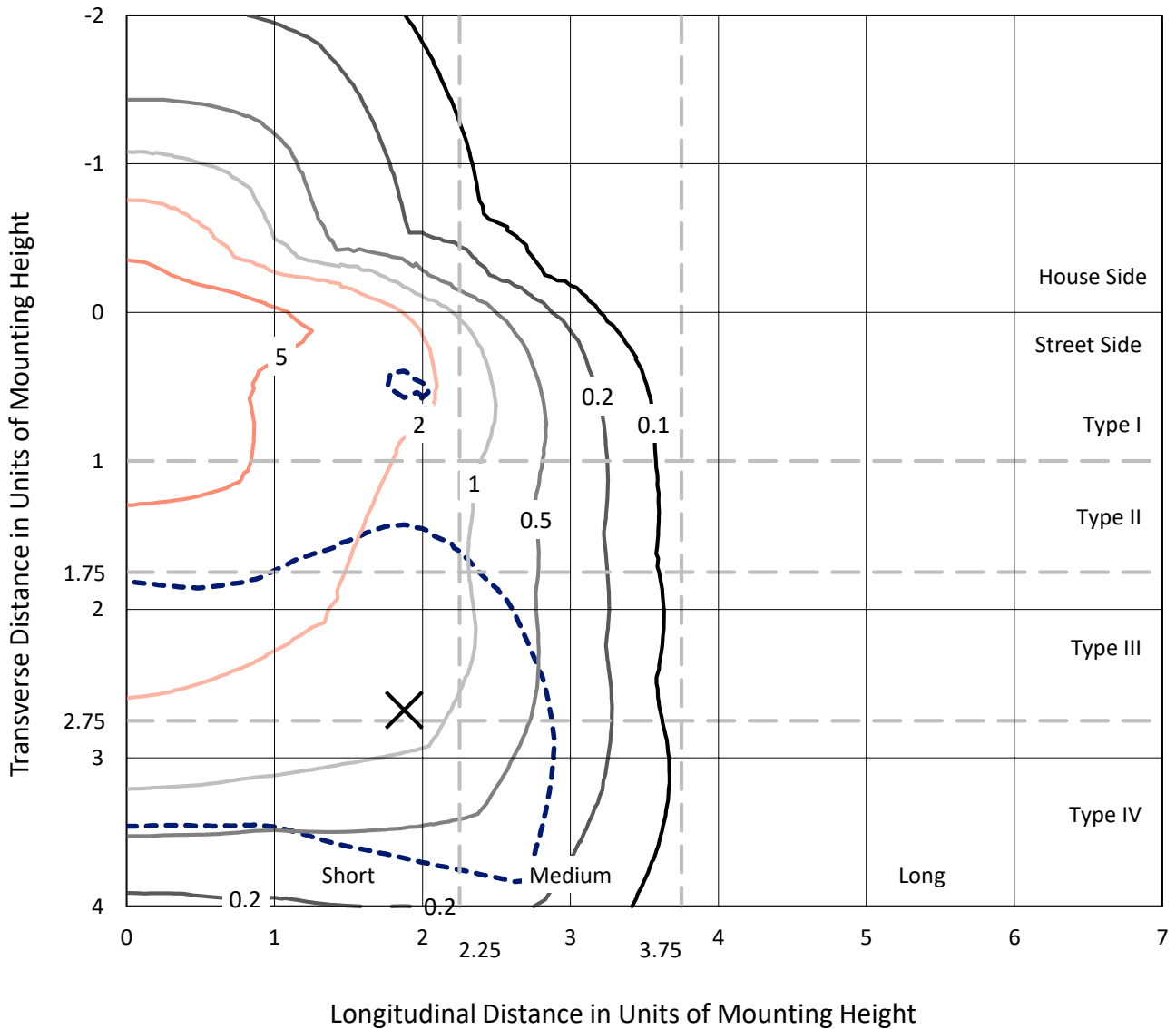
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

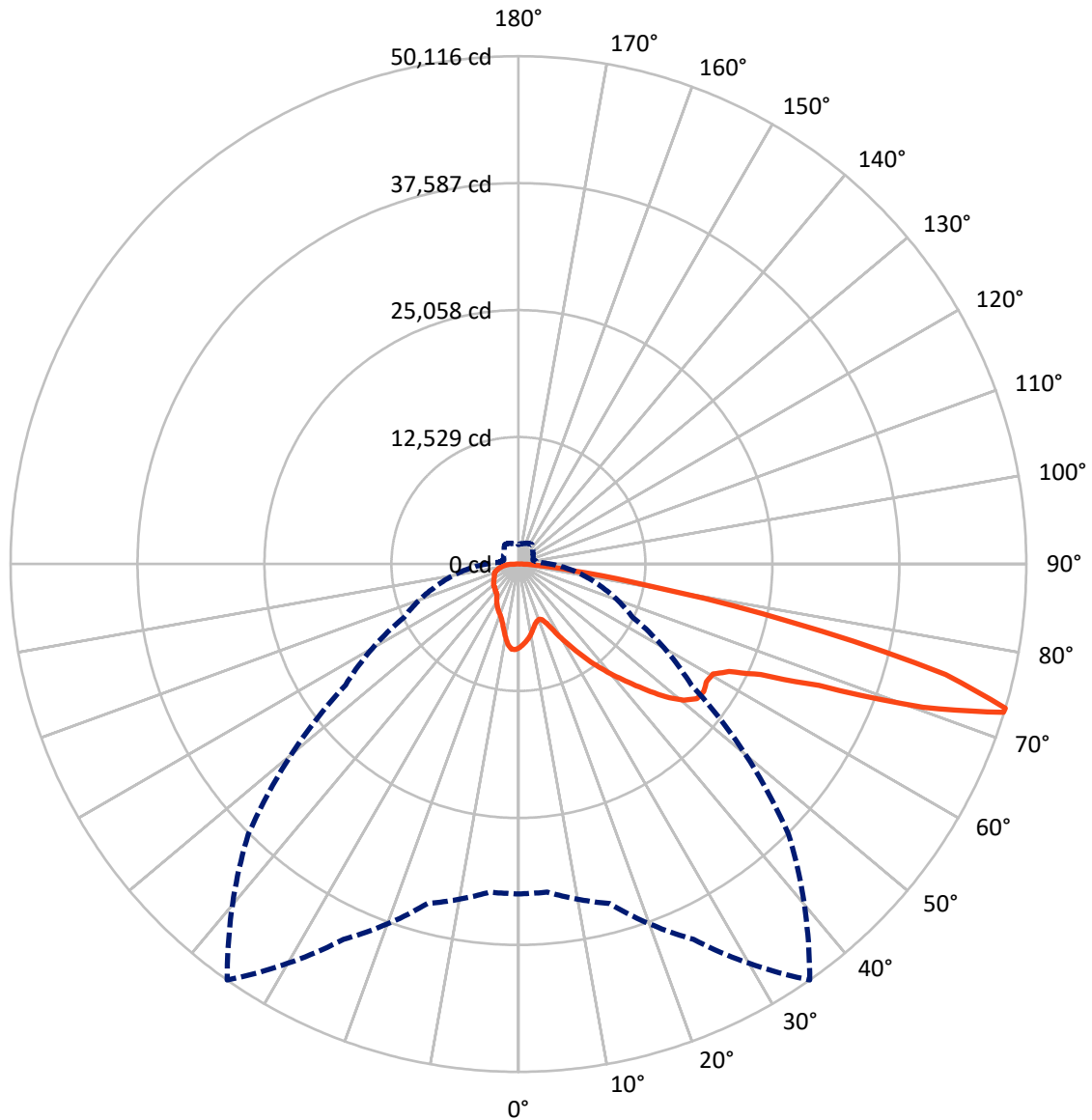
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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	10444.7	0.0	10444.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	44317.9	0.0	44317.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	54762.6	0.0	54762.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.3	1.4
10°-20°	1867.5	3.4
20°-30°	3019.1	5.5
30°-40°	5062.7	9.2
40°-50°	7803.9	14.3
50°-60°	10469.7	19.1
60°-70°	13947.8	25.5
70°-80°	10637.9	19.4
80°-90°	1205.8	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°	54762.6	100.0
0°-180°	54762.6	100.0



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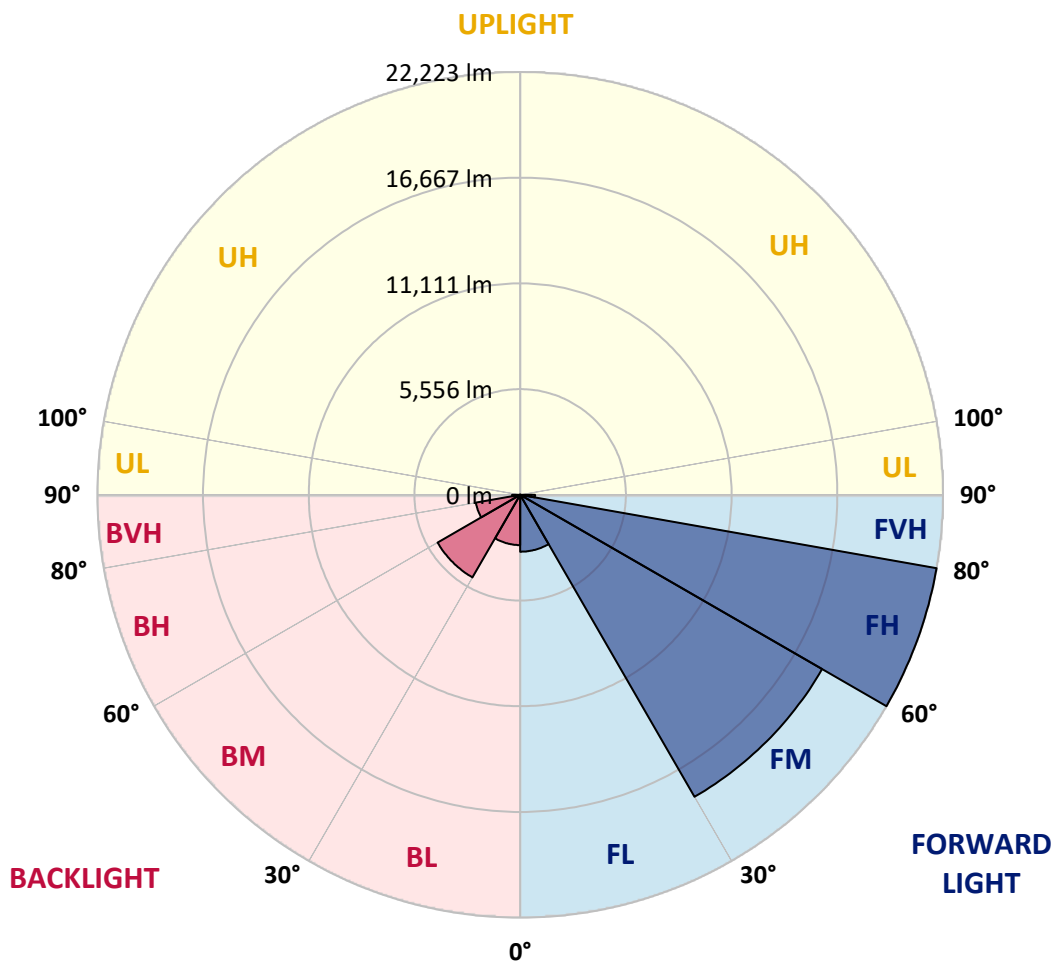
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2991.9	5.5			
FM	(30°-60°)	18323.9	33.5			
FH	(60°-80°)	22222.7	40.6			G5
FVH	(80°-90°)	779.4	1.4			G5
BL	(0°-30°)	2643.0	4.8	B4/5000		
BM	(30°-60°)	5012.3	9.2	B4/8500		
BH	(60°-80°)	2363.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	426.4	0.8			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°	55°	65°	75°	85°	90°
0°	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3
2.5°	7939.3	7955.1	7936.7	7960.3	7999.8	8041.8	8070.8	8112.8	8160.2	8226.0	8241.7
5°	7565.8	7589.6	7589.6	7631.6	7707.8	7776.3	7839.4	7907.7	8007.7	8120.8	8165.5
7.5°	7155.6	7168.7	7192.5	7255.6	7366.0	7463.3	7552.8	7663.1	7799.9	7949.9	8028.7
10°	6661.3	6679.7	6716.5	6805.9	6955.8	7089.9	7218.8	7371.3	7544.9	7731.6	7831.5
12.5°	6311.5	6306.2	6321.9	6387.7	6519.2	6682.2	6869.0	7063.6	7276.6	7494.9	7615.9
15°	6193.1	6164.2	6103.7	6087.9	6159.0	6321.9	6537.6	6776.9	7032.1	7295.0	7444.9
17.5°	6266.8	6216.8	6051.2	5930.1	5919.6	6043.2	6272.0	6540.2	6834.7	7155.6	7342.3
20°	6729.6	6611.2	6203.7	5922.3	5825.0	5885.4	6085.3	6369.3	6716.5	7142.4	7381.8
22.5°	7836.7	7663.1	6798.0	6274.7	5945.9	5872.2	6022.2	6324.6	6729.6	7305.5	7610.5
25°	9448.8	9201.5	7818.3	7153.0	6474.5	6082.7	6116.8	6427.2	6916.3	7684.2	8052.4
27.5°	10721.5	10561.1	9151.6	8391.6	7437.0	6650.7	6424.5	6684.9	7297.6	8304.8	8680.9
30°	11478.9	11381.7	10577.0	9795.9	8665.1	7555.3	7013.7	7168.7	7894.6	9164.7	9475.1
32.5°	12357.3	12299.4	11905.0	11187.1	9990.5	8744.0	7947.2	7892.0	8694.1	10198.3	10340.3
35°	13267.3	13248.8	13017.4	12502.0	11413.3	10311.3	9185.8	8812.4	9564.5	11271.2	11181.8
37.5°	14114.0	14082.5	13948.3	13648.5	12901.7	11994.4	10448.1	9756.5	10503.4	12296.8	11899.8
40°	15673.4	15426.3	14966.1	14739.9	14405.9	13411.8	11450.1	10637.5	11476.4	13275.1	12520.4
42.5°	17574.8	17172.5	16315.1	16004.8	15957.5	14529.5	12133.8	11492.1	12457.3	14245.5	13130.5
45°	19071.2	18692.5	17953.5	17561.6	17735.2	15542.0	12820.1	12404.6	13467.0	15263.2	13759.0
47.5°	20667.4	20073.1	19094.8	19213.2	19591.9	16499.2	13519.7	13385.5	14574.2	16401.9	14540.0
50°	20725.3	20270.3	19841.7	20549.0	21138.2	17380.1	14395.4	14413.8	15928.6	17835.1	15578.8
52.5°	19523.4	19426.1	20107.2	21219.7	22069.0	18077.1	15392.0	15476.2	17661.6	19481.4	16720.1
55°	19102.7	18992.2	19778.5	20985.6	22195.3	18653.0	16472.9	16625.4	19757.5	21217.0	17832.5
57.5°	20128.3	19883.7	19936.3	20875.2	21887.7	19284.2	17651.0	17958.7	22034.9	22734.4	18547.8
60°	22994.8	22471.5	21477.4	21453.7	22053.3	20230.9	19013.3	19389.3	24401.7	23460.3	18269.1
62.5°	27015.7	26492.4	24630.5	23418.1	23328.7	21792.9	20685.8	20785.7	25769.2	22476.7	16567.6
65°	31368.0	30899.9	28819.7	27107.7	26282.0	24380.6	22629.2	21409.0	25322.1	19770.7	13590.7
67.5°	36651.2	36148.9	34360.6	32780.2	31985.9	28556.7	23994.0	20812.0	22484.6	15315.8	9769.6
70°	40346.0	39833.2	39128.5	40409.1	42352.5	34581.6	24170.3	18384.8	16793.8	10179.9	5880.2
72.5°	35525.6	35286.3	36572.3	41965.9	50060.5	38237.0	21848.2	13385.5	9753.8	5404.1	3402.9
73°	32548.8	32496.2	34689.4	40874.6	50115.6	37674.2	20830.4	12441.4	8365.3	4781.0	3111.0
75°	14697.9	15121.3	19928.4	31220.7	43541.2	31044.5	14661.0	7137.2	4725.7	3303.0	2348.4
77.5°	3531.7	3679.0	6235.2	14826.6	27496.9	18500.5	6642.8	3529.2	3021.6	2332.6	1714.6
80°	1504.2	1554.2	2401.0	5477.8	12946.4	7450.2	3061.1	2364.1	2090.7	1627.8	1201.8
82.5°	836.3	888.8	1362.3	2485.2	5225.3	2540.4	1867.1	1646.2	1375.4	980.9	781.0
85°	473.3	502.3	796.8	1388.6	2214.3	1020.4	1117.7	1093.9	775.8	504.9	383.9
87.5°	223.5	241.9	383.9	644.3	867.9	399.8	568.0	625.8	486.5	307.7	199.9
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°	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3	8265.3
2.5°	8260.1	8307.5	8362.7	8391.6	8417.9	8449.5	8481.0	8481.0	8486.3	8489.0
5°	8202.2	8299.6	8386.4	8423.2	8431.1	8431.1	8423.2	8381.1	8344.3	8360.1
7.5°	8081.3	8223.3	8296.9	8283.8	8183.8	8068.1	7970.8	7852.5	7792.0	7781.5
10°	7907.7	8070.8	8084.0	7952.4	7705.3	7458.0	7252.9	7053.0	6958.4	6934.7
12.5°	7715.8	7865.7	7781.5	7510.6	7113.5	6753.2	6492.9	6290.4	6201.0	6177.3
15°	7560.6	7663.1	7450.2	7024.1	6524.5	6143.1	5927.5	5777.6	5714.5	5696.1
17.5°	7479.1	7500.1	7110.9	6535.0	6003.8	5685.6	5551.5	5480.5	5456.8	5443.6
20°	7518.5	7371.3	6787.5	6080.0	5577.7	5354.2	5322.6	5304.3	5299.0	5291.1
22.5°	7715.8	7331.8	6490.3	5648.7	5204.4	5107.0	5133.4	5130.7	5125.4	5120.2
25°	8068.1	7366.0	6201.0	5238.5	4891.3	4870.4	4917.6	4917.6	4896.7	4896.7
27.5°	8533.7	7437.0	5877.6	4849.3	4607.4	4610.0	4646.9	4636.3	4612.6	4596.8
30°	9101.6	7481.8	5498.9	4499.6	4341.7	4331.3	4341.7	4297.0	4226.0	4220.8
32.5°	9682.8	7426.5	5059.7	4189.2	4060.4	4036.7	4028.8	3965.7	3884.1	3860.5
35°	10208.7	7224.0	4612.6	3942.0	3792.2	3739.5	3776.3	3755.4	3681.7	3663.3
37.5°	10592.8	6847.9	4210.3	3723.7	3600.2	3587.0	3610.7	3618.6	3531.7	3513.4
40°	10850.4	6337.8	3865.7	3539.7	3563.3	3513.4	3434.5	3379.2	3352.9	3345.0
42.5°	11058.2	5806.6	3576.5	3452.9	3571.2	3426.6	3255.6	3166.2	3213.6	3234.7
45°	11297.5	5288.5	3334.5	3345.0	3531.7	3326.6	3132.1	3045.3	3063.7	3069.0
47.5°	11626.2	4657.3	3074.2	3171.6	3400.3	3258.3	3055.8	2932.2	2845.4	2806.0
50°	12081.2	3910.4	2803.3	2976.9	3271.4	3208.3	2937.5	2806.0	2645.6	2608.7
52.5°	12396.7	3213.6	2579.8	2813.8	3155.7	3108.4	2842.8	2671.8	2503.6	2472.0
55°	12225.8	2669.2	2385.2	2632.4	3003.2	2984.8	2763.9	2535.1	2403.6	2377.3
57.5°	11371.1	2324.8	2235.4	2461.4	2816.5	2879.6	2658.8	2419.4	2324.8	2306.3
60°	9740.6	2109.1	2140.6	2345.7	2664.0	2774.4	2553.5	2356.3	2293.1	2280.1
62.5°	7558.0	1964.5	2069.6	2261.6	2545.6	2700.8	2495.7	2348.4	2324.8	2308.9
65°	5414.7	1848.8	1993.3	2177.5	2437.8	2632.4	2474.6	2337.9	2343.2	2330.0
67.5°	3679.0	1746.2	1901.4	2082.8	2332.6	2571.9	2445.7	2301.0	2366.8	2351.0
70°	2574.6	1646.2	1793.5	1961.8	2201.1	2487.8	2393.1	2245.8	2240.6	2177.5
72.5°	2009.2	1514.8	1646.2	1793.5	2032.8	2369.5	2287.9	2122.2	2035.5	1969.7
73°	1917.1	1483.2	1609.4	1756.7	1996.0	2340.5	2259.0	2088.0	1990.8	1930.2
75°	1585.8	1346.4	1462.2	1593.7	1838.2	2203.7	2117.0	1932.9	1809.3	1772.5
77.5°	1246.5	1151.8	1262.3	1380.7	1619.9	2003.9	1906.6	1730.4	1662.0	1630.5
80°	923.0	954.6	1051.9	1157.1	1404.3	1790.9	1704.1	1527.9	1832.9	1756.7
82.5°	649.6	723.2	812.6	907.3	1178.1	1583.1	1478.0	1296.5	1341.2	1115.0
85°	383.9	473.3	557.5	639.0	849.5	1312.2	1220.2	1033.5	846.8	807.3
87.5°	223.5	263.0	286.6	370.8	583.8	988.8	859.9	765.3	439.2	297.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)