

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: P269753

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269753
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-10-LED-E1-T4FT-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 51495.4 lumens
Efficiency: N/A
Efficacy: 92.3 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

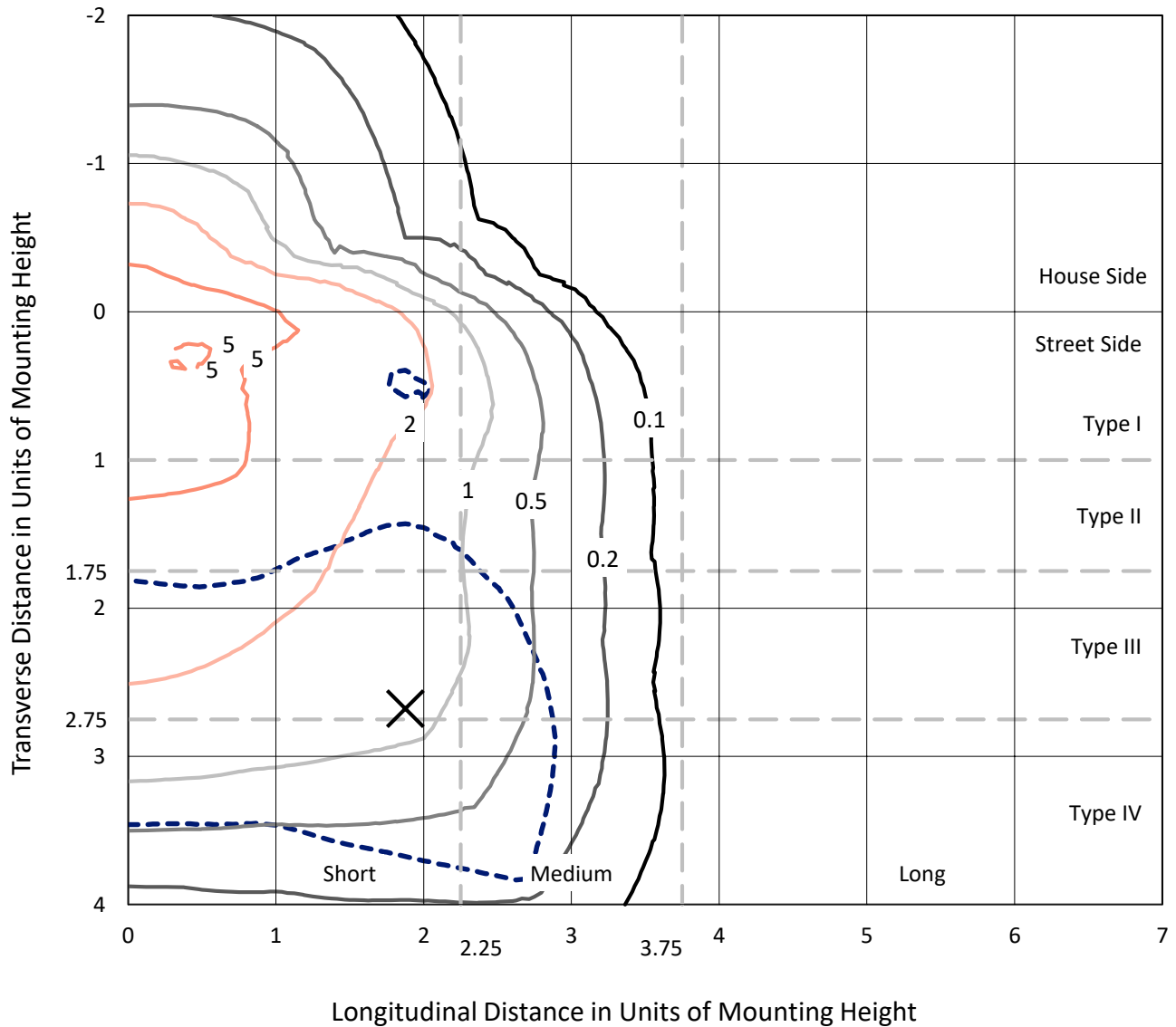
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

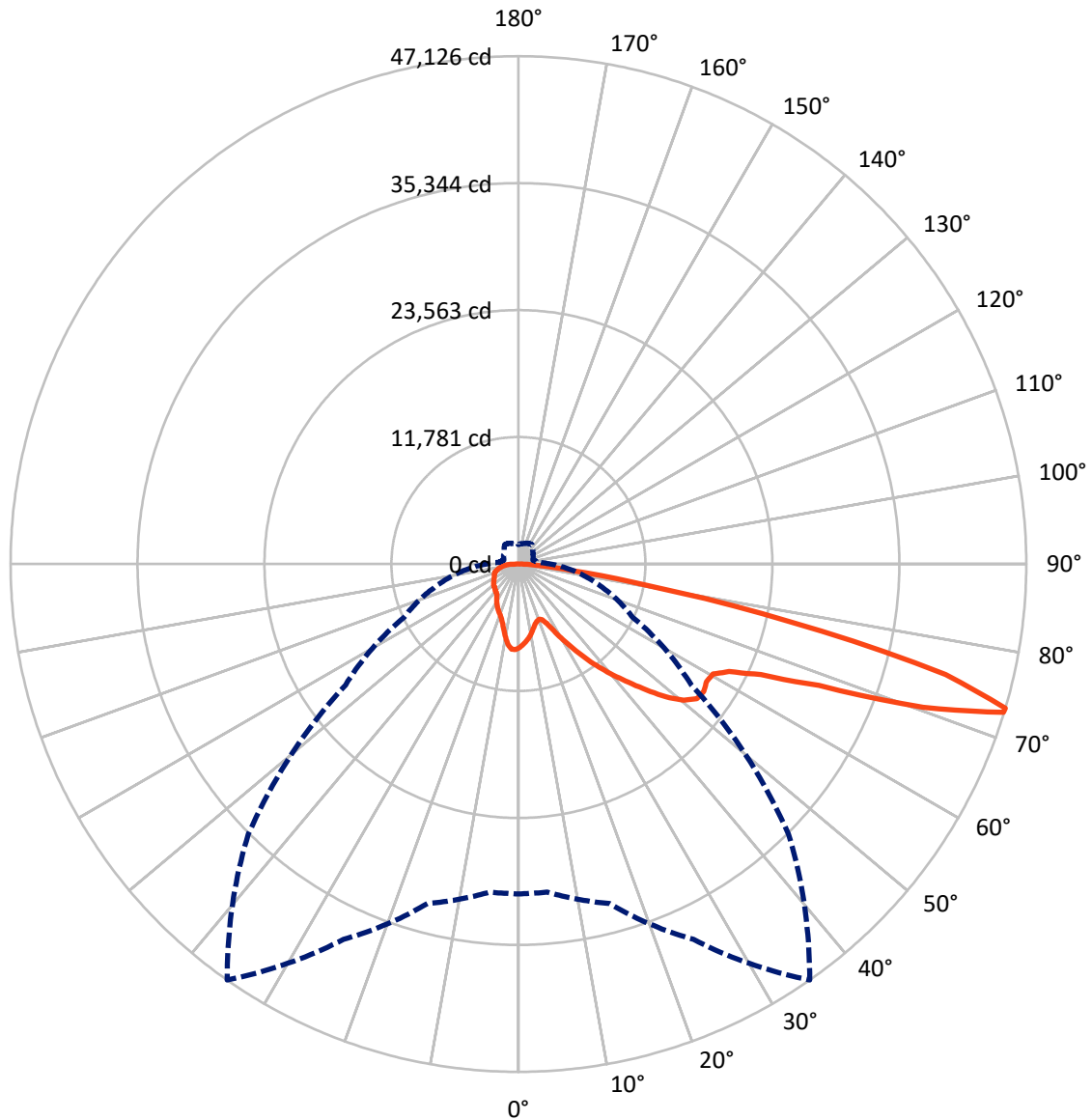
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	9821.6	0.0	9821.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	41673.8	0.0	41673.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	51495.4	0.0	51495.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.6	1.4
10°-20°	1756.1	3.4
20°-30°	2839.0	5.5
30°-40°	4760.6	9.2
40°-50°	7338.3	14.3
50°-60°	9845.1	19.1
60°-70°	13115.6	25.5
70°-80°	10003.2	19.4
80°-90°	1133.8	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°	51495.4	100.0
0°-180°	51495.4	100.0

Coefficient of Utilization



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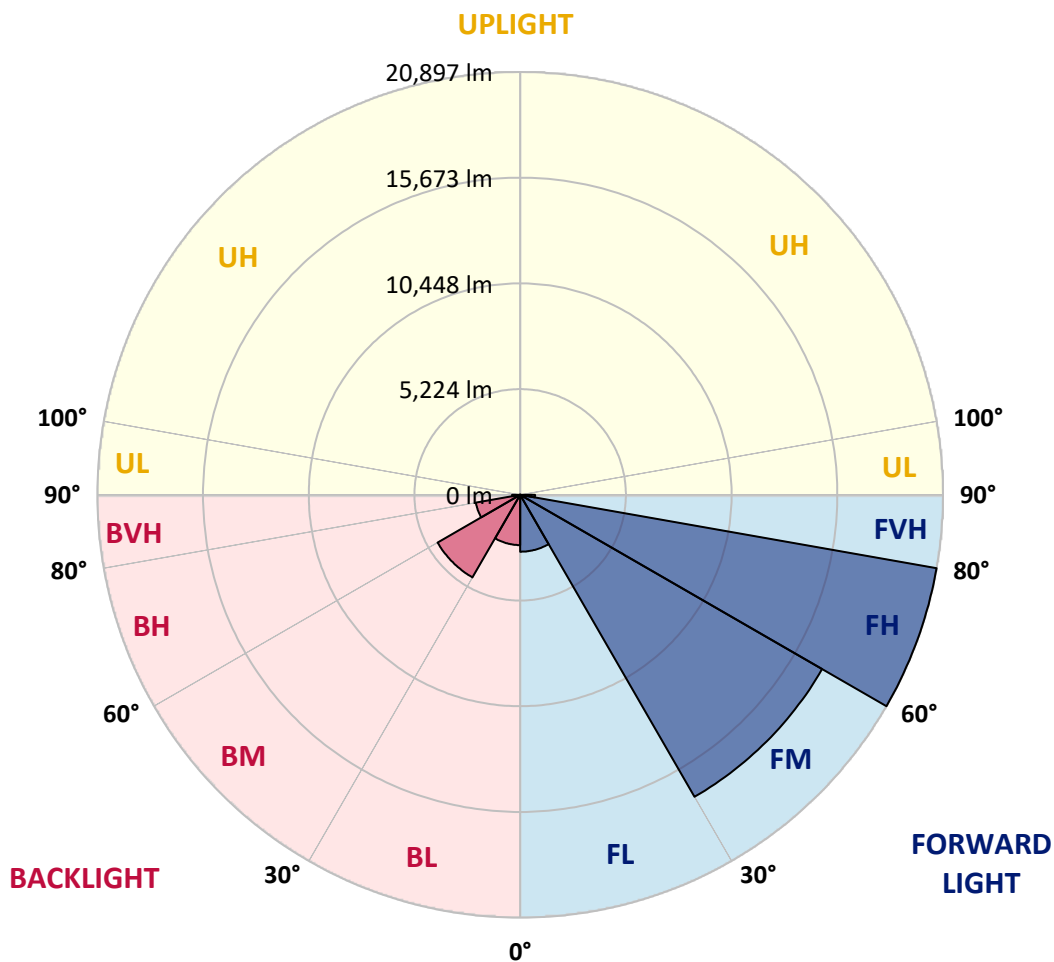
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2813.4	5.5			
FM	(30°-60°)	17230.7	33.5			
FH	(60°-80°)	20896.8	40.6			G5
FVH	(80°-90°)	732.9	1.4			G4/750
BL	(0°-30°)	2485.3	4.8	B3/2500		
BM	(30°-60°)	4713.3	9.2	B3/5000		
BH	(60°-80°)	2222.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	400.9	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°	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2
2.5°	7465.6	7480.5	7463.2	7485.3	7522.4	7562.0	7589.3	7628.9	7673.3	7735.1	7749.9
5°	7114.4	7136.8	7136.8	7176.3	7248.1	7312.4	7371.6	7435.9	7530.0	7636.2	7678.4
7.5°	6728.8	6741.2	6763.2	6822.6	6926.6	7018.0	7102.1	7205.9	7334.5	7475.5	7549.6
10°	6263.8	6281.0	6315.8	6399.9	6540.7	6667.0	6788.0	6931.5	7094.6	7270.3	7364.2
12.5°	5934.9	5929.9	5944.9	6006.6	6130.3	6283.6	6459.2	6642.2	6842.5	7047.7	7161.5
15°	5823.6	5796.5	5739.5	5724.7	5791.6	5944.9	6147.6	6372.5	6612.5	6859.7	7000.8
17.5°	5892.9	5845.9	5690.1	5576.4	5566.4	5682.7	5897.8	6150.1	6427.1	6728.8	6904.3
20°	6328.1	6216.8	5833.6	5569.0	5477.4	5534.3	5722.3	5989.3	6315.8	6716.4	6941.4
22.5°	7369.2	7205.9	6392.3	5900.2	5591.2	5521.9	5662.8	5947.3	6328.1	6869.7	7156.4
25°	8885.0	8652.7	7351.9	6726.1	6088.3	5719.8	5751.8	6043.6	6503.6	7225.7	7572.0
27.5°	10081.9	9931.1	8605.7	7890.9	6993.2	6253.9	6041.2	6286.1	6862.2	7809.3	8163.0
30°	10794.2	10702.5	9945.9	9211.5	8148.2	7104.5	6595.1	6741.2	7423.6	8618.0	8909.7
32.5°	11620.0	11565.7	11194.7	10519.6	9394.5	8222.4	7473.0	7421.1	8175.4	9589.9	9723.3
35°	12475.8	12458.4	12240.8	11756.1	10732.3	9696.1	8637.7	8286.7	8993.9	10598.7	10514.8
37.5°	13271.9	13242.3	13116.2	12834.3	12131.9	11278.8	9824.8	9174.4	9876.7	11563.2	11189.7
40°	14738.3	14505.9	14073.1	13860.5	13546.4	12611.7	10766.9	10002.7	10791.7	12483.0	11773.4
42.5°	16526.3	16147.9	15341.8	15049.9	15005.4	13662.6	11409.8	10806.5	11714.0	13395.5	12347.1
45°	17933.4	17577.2	16882.3	16513.9	16677.0	14614.7	12055.3	11664.5	12663.5	14352.6	12938.1
47.5°	19434.3	18875.5	17955.5	18066.8	18422.9	15514.8	12713.1	12587.0	13704.7	15423.3	13672.6
50°	19488.8	19061.0	18657.8	19323.1	19876.9	16343.3	13536.5	13553.8	14978.2	16771.0	14649.3
52.5°	18358.7	18267.2	18907.6	19953.6	20752.4	16998.5	14473.8	14552.9	16607.9	18319.0	15722.6
55°	17963.0	17859.2	18598.5	19733.5	20871.1	17540.1	15490.2	15633.6	18578.7	19951.1	16768.7
57.5°	18927.4	18697.4	18746.9	19629.8	20581.7	18133.6	16598.0	16887.2	20720.2	21378.0	17441.2
60°	21622.8	21130.7	20196.0	20173.7	20737.6	19023.9	17878.8	18232.4	22945.9	22060.5	17179.0
62.5°	25403.9	24911.7	23161.0	22021.1	21936.9	20492.8	19451.7	19545.6	24231.7	21135.7	15579.1
65°	29496.4	29056.2	27100.2	25490.5	24713.9	22926.1	21279.1	20131.6	23811.4	18591.1	12779.8
67.5°	34464.6	33992.1	32310.6	30824.4	30077.6	26852.9	22562.5	19570.4	21143.0	14402.0	9186.7
70°	37938.8	37456.6	36793.9	37998.2	39825.6	32518.4	22728.2	17287.9	15791.8	9572.5	5529.3
72.5°	33406.1	33181.1	34390.4	39462.2	47073.7	35955.6	20544.6	12587.0	9172.0	5081.7	3199.9
73°	30606.8	30557.4	32619.8	38435.9	47125.7	35426.5	19587.6	11699.2	7866.2	4495.7	2925.4
75°	13821.0	14219.0	18739.5	29358.0	40943.4	29192.3	13786.3	6711.3	4443.7	3105.9	2208.3
77.5°	3321.0	3459.6	5863.1	13942.1	25856.5	17396.7	6246.5	3318.6	2841.2	2193.4	1612.3
80°	1414.6	1461.5	2257.7	5151.1	12174.0	7005.6	2878.3	2223.1	1965.9	1530.7	1130.1
82.5°	786.3	835.9	1281.0	2336.9	4913.5	2388.9	1755.7	1548.0	1293.3	922.4	734.5
85°	445.1	472.2	749.2	1305.6	2082.1	959.5	1050.9	1028.6	729.6	474.8	361.1
87.5°	210.3	227.5	361.1	605.8	816.0	375.9	534.1	588.5	457.4	289.3	187.9
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°	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2
2.5°	7767.4	7811.8	7863.8	7890.9	7915.7	7945.4	7975.1	7975.1	7980.0	7982.5
5°	7712.8	7804.5	7886.0	7920.6	7928.0	7928.0	7920.6	7881.1	7846.4	7861.2
7.5°	7599.1	7732.7	7801.9	7789.6	7695.6	7586.7	7495.3	7384.0	7327.1	7317.2
10°	7435.9	7589.3	7601.6	7478.0	7245.5	7013.1	6820.2	6632.2	6543.3	6520.9
12.5°	7255.4	7396.4	7317.2	7062.6	6689.0	6350.4	6105.5	5915.1	5831.1	5808.8
15°	7109.5	7205.9	7005.6	6605.1	6135.2	5776.6	5573.9	5432.9	5373.7	5356.2
17.5°	7032.9	7052.7	6686.7	6145.0	5645.6	5346.4	5220.2	5153.4	5131.2	5118.8
20°	7070.0	6931.5	6382.5	5717.4	5244.9	5034.8	5005.0	4987.7	4982.9	4975.4
22.5°	7255.4	6894.4	6103.1	5311.8	4893.8	4802.2	4827.0	4824.5	4819.6	4814.6
25°	7586.7	6926.6	5831.1	4925.9	4599.5	4579.7	4624.3	4624.3	4604.5	4604.5
27.5°	8024.5	6993.2	5526.9	4559.9	4332.4	4335.0	4369.5	4359.7	4337.5	4322.6
30°	8558.6	7035.3	5170.7	4231.0	4082.7	4072.8	4082.7	4040.7	3973.9	3969.0
32.5°	9105.1	6983.5	4757.9	3939.2	3818.2	3795.9	3788.4	3729.1	3652.5	3630.2
35°	9599.6	6793.1	4337.5	3706.9	3565.9	3516.4	3551.1	3531.2	3462.0	3444.7
37.5°	9960.8	6439.4	3959.1	3501.7	3385.4	3373.0	3395.2	3402.7	3321.0	3303.7
40°	10203.0	5959.6	3635.1	3328.5	3350.8	3303.7	3229.5	3177.7	3153.0	3145.4
42.5°	10398.4	5460.1	3363.2	3247.0	3358.1	3222.2	3061.5	2977.3	3021.9	3041.7
45°	10623.4	4972.9	3135.7	3145.4	3321.0	3128.2	2945.3	2863.5	2881.0	2885.8
47.5°	10932.6	4379.4	2890.7	2982.4	3197.4	3063.8	2873.5	2757.3	2675.6	2638.5
50°	11360.3	3677.1	2636.0	2799.3	3076.2	3016.9	2762.2	2638.5	2487.8	2453.1
52.5°	11657.1	3021.9	2426.0	2646.0	2967.5	2922.9	2673.1	2512.4	2354.2	2324.5
55°	11496.4	2510.0	2242.9	2475.4	2824.0	2806.8	2598.9	2383.8	2260.2	2235.5
57.5°	10692.7	2186.0	2101.9	2314.7	2648.5	2707.9	2500.2	2275.0	2186.0	2168.7
60°	9159.6	1983.3	2012.9	2205.8	2505.1	2608.9	2401.2	2215.7	2156.3	2144.0
62.5°	7107.0	1847.3	1946.2	2126.6	2393.8	2539.7	2346.7	2208.3	2186.0	2171.3
65°	5091.7	1738.4	1874.5	2047.5	2292.4	2475.4	2327.0	2198.4	2203.4	2191.0
67.5°	3459.6	1642.0	1787.8	1958.6	2193.4	2418.4	2299.8	2163.7	2225.6	2210.8
70°	2420.9	1548.0	1686.5	1844.8	2069.9	2339.4	2250.3	2111.8	2106.9	2047.5
72.5°	1889.2	1424.4	1548.0	1686.5	1911.6	2228.1	2151.4	1995.7	1914.0	1852.1
73°	1802.7	1394.7	1513.5	1651.9	1876.9	2200.8	2124.2	1963.4	1872.0	1815.0
75°	1491.1	1266.2	1374.9	1498.6	1728.6	2072.3	1990.6	1817.6	1701.3	1666.7
77.5°	1172.2	1083.1	1187.0	1298.3	1523.3	1884.4	1792.8	1627.2	1562.8	1533.1
80°	868.0	897.6	989.2	1088.0	1320.5	1684.1	1602.4	1436.7	1723.6	1651.9
82.5°	610.8	680.0	764.1	853.1	1107.9	1488.8	1389.8	1219.1	1261.2	1048.5
85°	361.1	445.1	524.3	600.8	798.8	1233.9	1147.5	971.8	796.3	759.2
87.5°	210.3	247.4	269.5	348.7	549.0	929.7	808.7	719.6	413.0	279.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)