

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: P191567

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43673.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

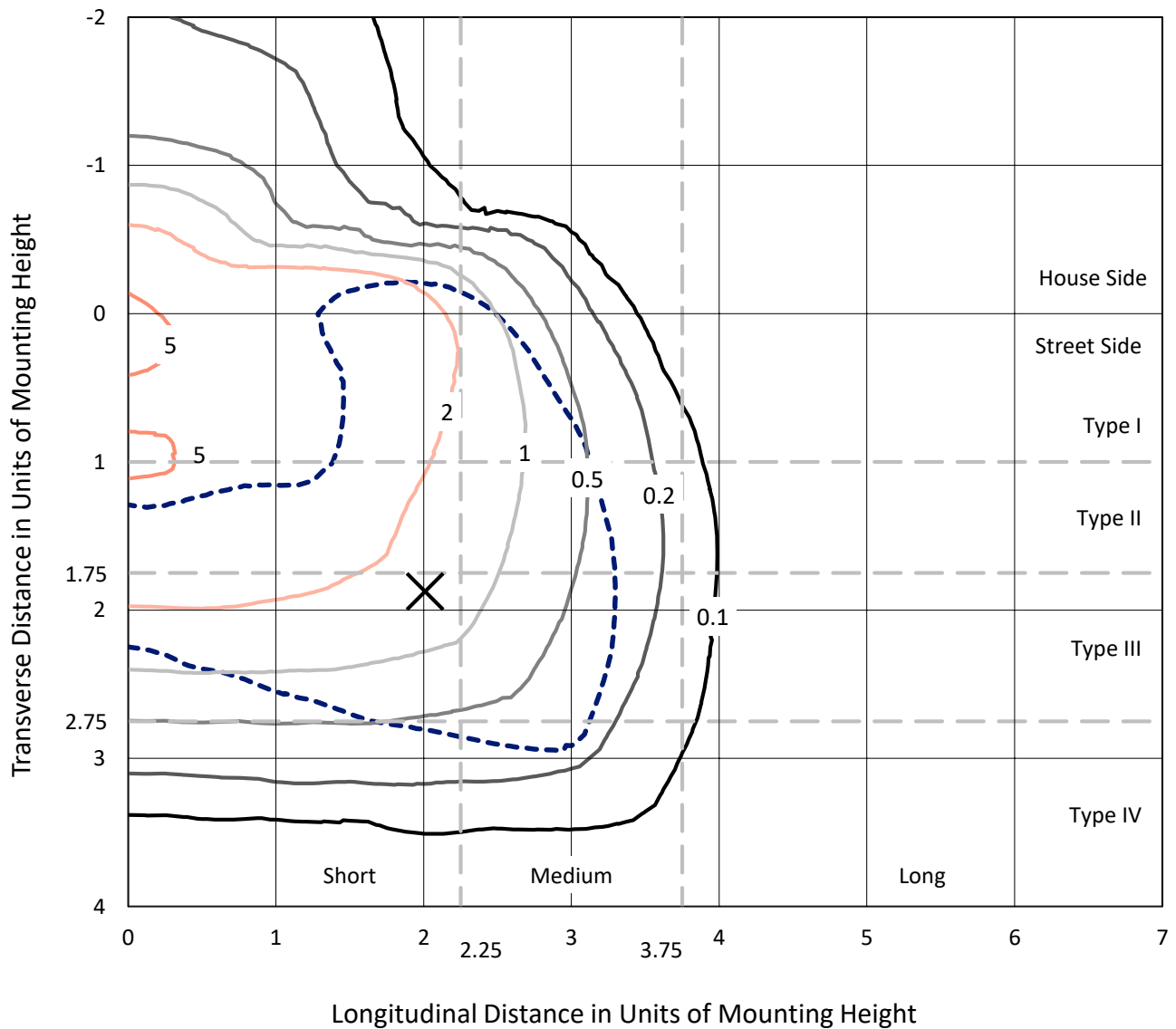
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

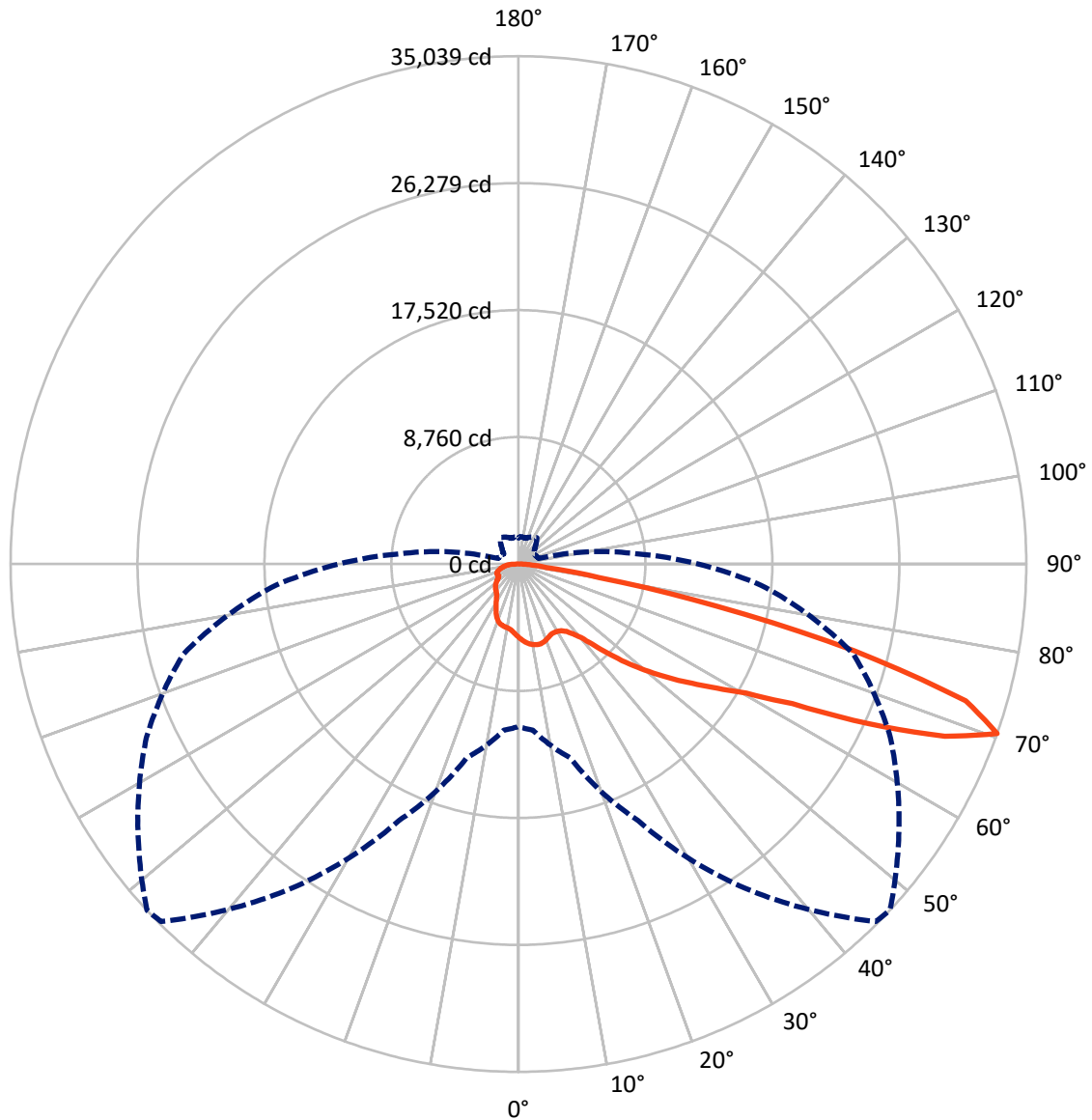
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9111.2	0.0	9111.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	34562.6	0.0	34562.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	43673.9	0.0	43673.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.6	1.1
10°-20°	1424.5	3.3
20°-30°	2103.6	4.8
30°-40°	3057.5	7.0
40°-50°	5502.5	12.6
50°-60°	9532.5	21.8
60°-70°	13605.6	31.2
70°-80°	6984.3	16.0
80°-90°	977.8	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°	43673.9	100.0
0°-180°	43673.9	100.0

Coefficient of Utilization



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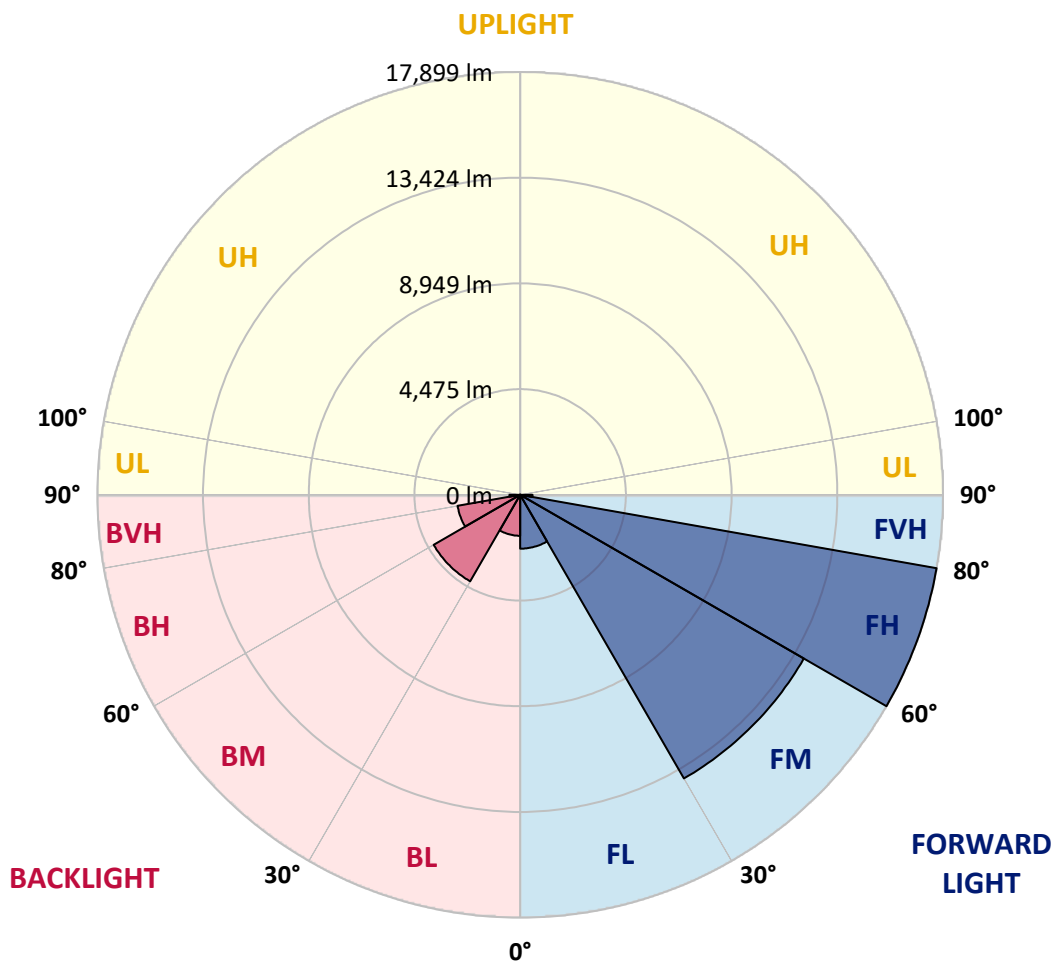
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2278.8	5.2			
FM	(30°-60°)	13863.3	31.7			
FH	(60°-80°)	17898.7	41.0			G5
FVH	(80°-90°)	521.8	1.2			G4/750
BL	(0°-30°)	1734.8	4.0	B3/2500		
BM	(30°-60°)	4229.2	9.7	B3/5000		
BH	(60°-80°)	2691.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	456.1	1.0			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°	47°	55°	65°	75°	85°
0°	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5
2.5°	5365.0	5354.3	5350.1	5341.6	5331.0	5277.9	5267.3	5229.0	5175.9	5120.7	5063.3
5°	5717.7	5715.5	5692.2	5649.8	5581.7	5464.8	5437.2	5343.8	5218.4	5097.3	4976.1
7.5°	6027.9	6008.8	5964.2	5879.2	5760.2	5600.9	5562.6	5433.0	5260.8	5095.1	4931.5
10°	6255.2	6244.6	6146.9	6030.0	5874.9	5698.6	5654.0	5509.5	5320.4	5110.0	4906.1
12.5°	6384.8	6363.7	6251.0	6110.8	5926.0	5753.8	5709.2	5562.6	5350.1	5110.0	4870.0
15°	6376.4	6361.5	6248.9	6095.9	5909.0	5758.1	5717.7	5571.1	5343.8	5088.8	4823.2
17.5°	6206.3	6212.8	6117.1	5966.3	5813.3	5698.6	5662.4	5526.5	5301.2	5046.3	4768.0
20°	5909.0	5938.6	5874.9	5741.1	5656.1	5577.4	5554.1	5439.3	5235.4	4984.6	4708.4
22.5°	5611.5	5639.1	5613.5	5501.0	5488.2	5441.5	5428.7	5345.8	5178.0	4946.4	4672.3
25°	5392.6	5418.2	5413.9	5316.2	5354.3	5352.3	5341.6	5301.2	5165.3	4946.4	4678.7
27.5°	5333.2	5341.6	5333.2	5243.9	5297.0	5339.5	5331.0	5324.7	5203.5	5008.1	4759.5
30°	5537.1	5524.3	5458.5	5277.9	5326.7	5386.2	5377.8	5381.9	5318.2	5169.5	4940.0
32.5°	6350.9	6293.5	6085.3	5577.4	5447.8	5479.7	5483.9	5554.1	5564.8	5418.2	5220.5
35°	7568.4	7504.6	7234.8	6380.7	5824.0	5713.5	5713.5	5819.7	5883.4	5775.1	5656.1
37.5°	8858.0	8788.0	8643.5	7494.0	6614.3	6119.3	6108.7	6183.0	6274.4	6299.8	6329.6
40°	10324.1	10249.8	10290.2	8743.4	7717.1	6822.6	6671.7	6618.6	6865.0	7028.7	7266.6
42.5°	11928.3	11894.4	11909.2	10135.1	8972.8	7874.4	7659.8	7385.6	7683.1	7974.2	8473.5
45°	13413.5	13443.3	13428.4	11624.5	10370.9	9157.7	8930.4	8399.1	8690.3	9189.6	10003.3
47.5°	14713.9	14590.7	14781.8	13252.0	11936.8	10594.0	10313.5	9601.7	9897.0	10513.3	11890.1
50°	16292.5	16275.6	15995.1	15423.5	13830.0	12036.8	11669.1	10844.7	11303.7	12159.9	14267.7
52.5°	17952.0	17644.0	17386.8	17112.7	15837.8	13515.5	13065.1	12083.4	12956.7	14034.0	17165.8
55°	18292.0	18153.9	18472.5	18933.6	17773.6	15051.7	14526.9	13636.7	14818.0	16175.7	20508.1
57.5°	19018.6	19016.6	19675.2	20497.5	19766.6	16681.4	16152.4	15512.8	16910.9	18629.8	24056.4
60°	19509.4	19647.5	20871.4	22467.1	21723.5	18563.9	18077.4	17677.9	19290.6	21372.8	27362.5
62.5°	19766.6	19953.5	21623.5	23266.0	24489.9	21697.9	21211.4	20635.6	22439.4	24381.5	29296.1
65°	18697.8	19065.3	21506.7	23956.6	26912.1	26778.2	26559.4	25548.0	26376.7	26759.1	28597.0
67.5°	15740.1	16116.2	18959.2	23312.7	28641.6	31677.9	31724.7	29997.2	28798.8	26963.0	24043.6
70°	11214.4	11509.7	13861.9	19545.5	27324.2	34879.9	35039.2	32047.6	28316.5	23911.9	16798.3
72.5°	5324.7	5505.2	7732.0	12720.9	21683.1	31958.3	32266.4	29429.9	24077.7	17703.4	9164.0
75°	1956.9	2012.1	2613.4	5411.7	12576.4	23567.8	23931.0	21096.6	15961.1	8813.4	3490.9
77.5°	1172.8	1209.0	1466.1	2284.1	4946.4	13470.9	14008.5	11473.6	6975.5	3280.6	1716.8
80°	820.2	845.7	1051.8	1421.5	2337.2	5133.4	5611.5	4683.0	2779.2	2075.9	1249.3
82.5°	554.5	567.3	739.4	960.3	1553.1	1833.6	1978.2	2082.2	1874.0	1544.7	792.6
85°	363.4	376.0	501.5	633.2	988.0	947.7	968.8	1226.0	1368.3	1049.6	439.9
87.5°	208.3	216.8	301.7	337.9	484.5	401.6	405.8	645.9	875.4	707.6	267.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5	5067.5
2.5°	5048.4	5020.7	4959.2	4920.9	4884.8	4876.3	4861.5	4859.3	4857.2	4857.2	4850.8
5°	4935.8	4889.1	4793.4	4740.4	4695.7	4691.5	4689.3	4699.9	4704.2	4708.4	4702.1
7.5°	4863.5	4799.8	4680.8	4604.3	4551.2	4538.4	4559.7	4608.6	4640.4	4653.2	4646.9
10°	4818.9	4740.4	4602.3	4519.3	4474.7	4468.4	4496.0	4553.4	4619.2	4644.7	4642.6
12.5°	4768.0	4678.7	4532.1	4444.9	4419.5	4432.2	4468.4	4521.4	4589.5	4629.9	4631.9
15°	4716.9	4612.8	4462.0	4385.5	4374.9	4391.8	4425.9	4466.2	4519.3	4559.7	4564.0
17.5°	4655.3	4546.9	4396.1	4317.5	4309.0	4317.5	4319.6	4340.9	4374.9	4413.1	4423.8
20°	4589.5	4479.0	4321.8	4243.1	4204.8	4170.9	4132.6	4136.9	4147.6	4185.7	4194.3
22.5°	4542.7	4432.2	4264.4	4156.0	4054.1	3952.1	3875.6	3864.9	3869.2	3901.0	3911.7
25°	4546.9	4430.1	4249.5	4062.5	3839.4	3675.8	3573.8	3556.8	3554.8	3578.1	3592.9
27.5°	4629.9	4513.0	4304.8	3966.9	3605.7	3363.5	3255.1	3242.3	3225.4	3231.7	3248.8
30°	4814.7	4706.3	4438.6	3869.2	3352.8	3057.5	2944.9	2932.2	2908.8	2898.1	2910.9
32.5°	5116.4	5027.2	4634.1	3775.7	3100.1	2796.1	2681.5	2653.8	2638.9	2626.2	2636.9
35°	5617.8	5579.6	4895.4	3673.7	2876.9	2594.3	2490.2	2447.7	2426.4	2449.9	2466.8
37.5°	6404.0	6425.3	5237.5	3514.3	2704.8	2460.5	2373.3	2324.5	2292.6	2311.8	2330.9
40°	7517.4	7532.2	5615.7	3289.1	2556.0	2381.8	2288.3	2243.7	2199.1	2165.1	2163.0
42.5°	8979.2	8828.4	5987.5	3044.8	2384.0	2332.9	2228.9	2173.7	2105.6	2012.1	1993.0
45°	10713.0	10183.9	6270.2	2764.3	2190.6	2273.5	2163.0	2086.5	1980.2	1878.2	1867.7
47.5°	12710.3	11639.3	6408.3	2473.2	2010.0	2186.4	2082.2	1961.1	1827.3	1776.3	1769.9
50°	15149.5	13366.8	6474.2	2190.6	1852.8	2071.7	1965.4	1823.0	1710.4	1699.8	1693.4
52.5°	17926.5	15444.8	6495.3	1959.1	1723.2	1922.9	1869.7	1731.7	1642.4	1650.9	1650.9
55°	20833.2	17590.8	6206.3	1791.2	1604.2	1769.9	1806.0	1695.5	1621.2	1655.1	1667.9
57.5°	23501.9	19492.4	5297.0	1661.6	1491.6	1653.1	1782.7	1729.5	1678.6	1816.7	1825.1
60°	25550.1	20616.4	3956.3	1544.7	1408.7	1612.7	1844.3	1859.1	1871.9	2201.3	2245.9
62.5°	25979.3	20242.5	2719.7	1453.3	1370.4	1646.6	1956.9	1959.1	1944.1	2173.7	2201.3
65°	24009.7	17877.6	1978.2	1402.4	1338.6	1708.3	2052.6	2007.8	1910.2	2084.4	2033.4
67.5°	19067.5	13468.8	1646.6	1364.1	1291.9	1704.0	2154.5	2052.6	1891.0	2041.9	1959.1
70°	12376.7	8144.1	1466.1	1332.2	1236.6	1623.3	2214.0	2048.3	1835.8	1899.5	1801.8
72.5°	6038.6	3641.8	1345.0	1285.4	1179.3	1510.7	2211.8	2010.0	1778.4	1774.2	1721.0
75°	2362.7	1667.9	1234.5	1215.4	1081.5	1383.2	2152.4	1954.8	1710.4	1642.4	1623.3
77.5°	1383.2	1189.9	1094.3	1111.2	964.6	1255.8	2065.2	1859.1	1617.0	1536.2	1515.0
80°	1007.1	890.3	932.7	960.3	824.4	1128.2	1948.4	1742.3	1512.8	1553.1	1523.5
82.5°	645.9	573.7	756.4	784.0	686.3	998.6	1821.0	1619.0	1366.3	1240.8	1211.1
85°	329.3	363.4	563.0	597.1	529.1	820.2	1665.8	1455.5	1200.4	1032.7	1049.6
87.5°	184.8	248.6	359.1	401.6	374.0	631.1	1351.3	1200.4	979.5	796.8	701.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)