

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: P191576

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191576
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-08-LED-E1-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48459.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

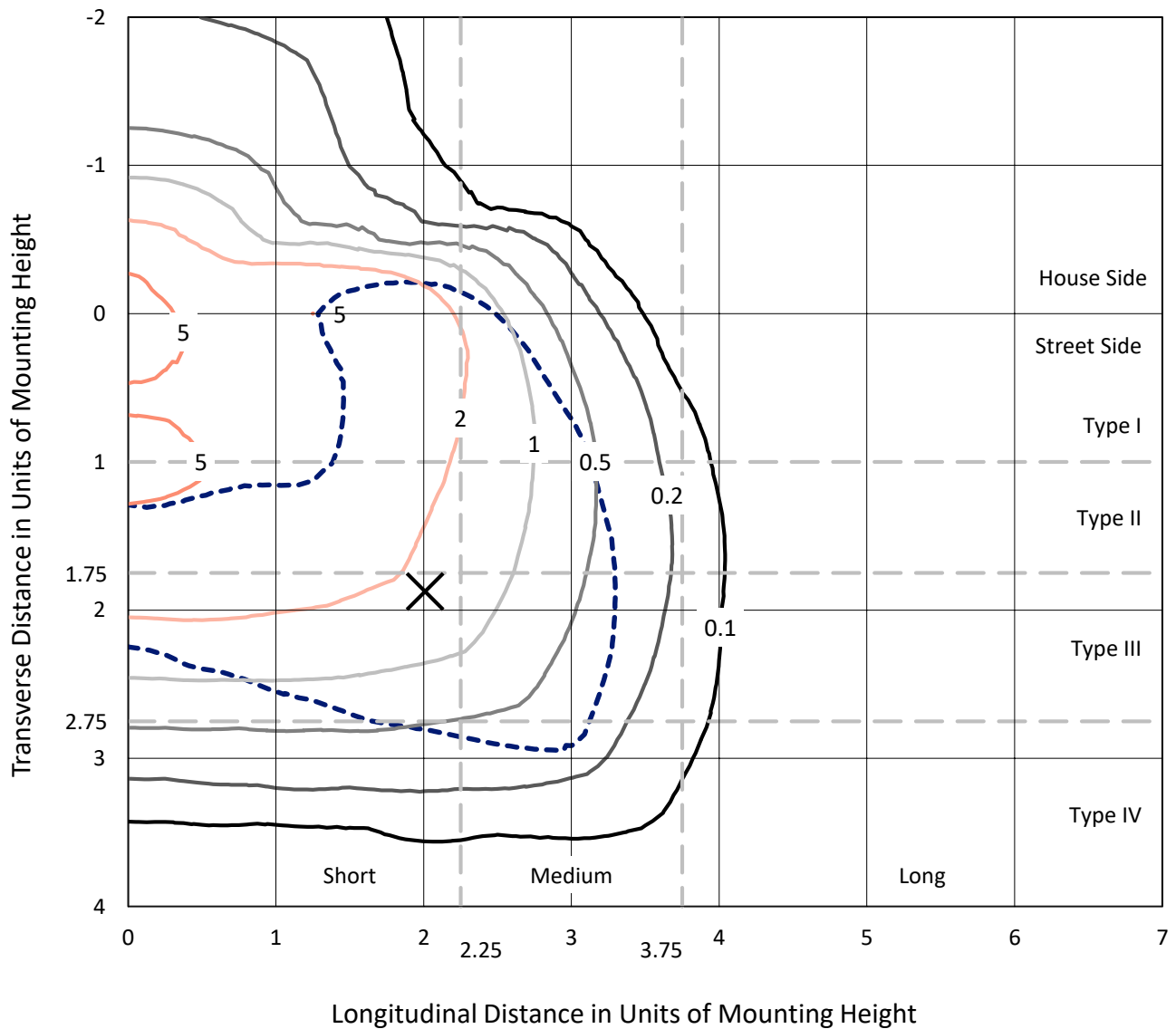
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

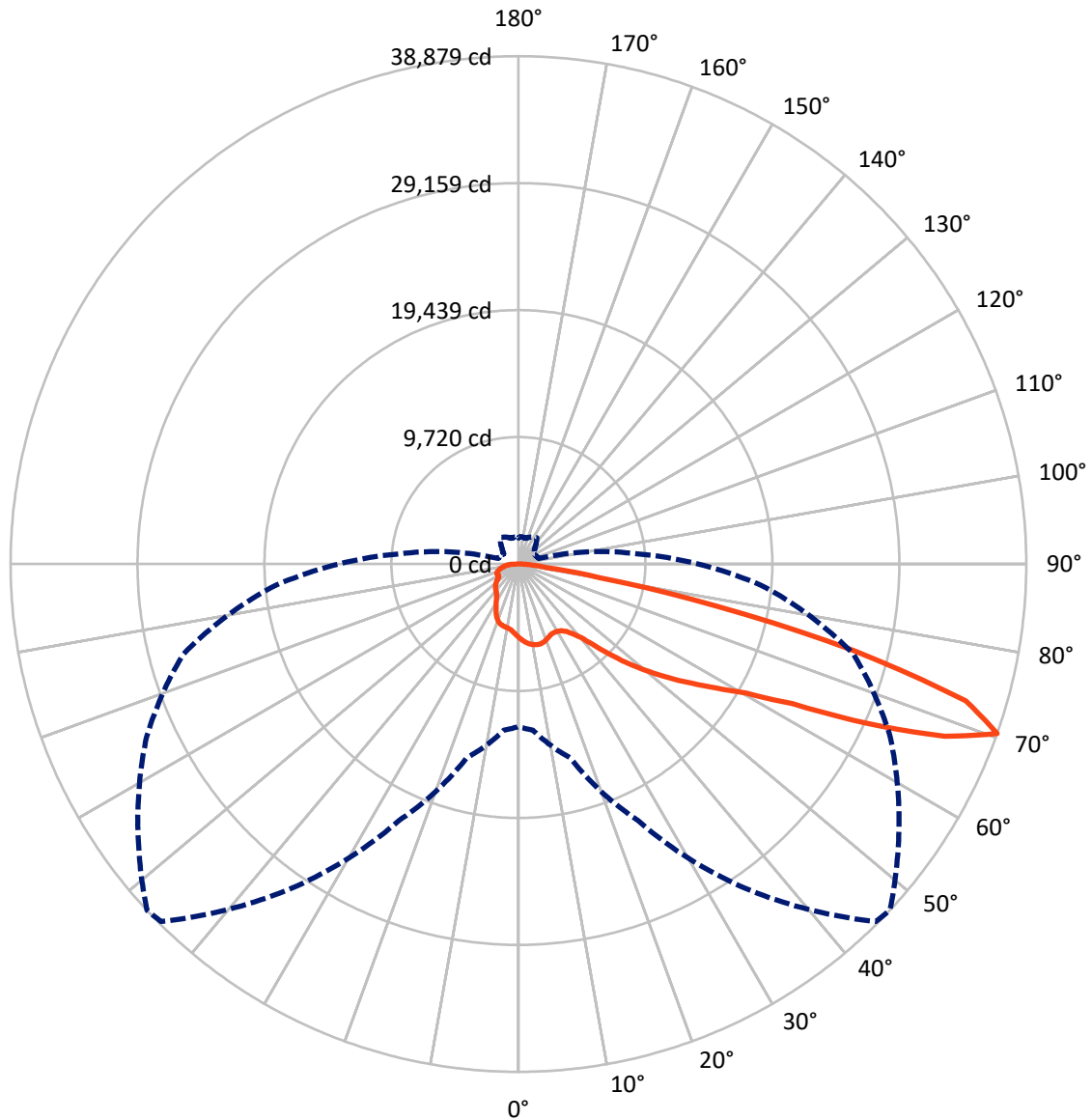
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	10109.6	0.0	10109.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	38349.7	0.0	38349.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	48459.2	0.0	48459.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.8	1.1
10°-20°	1580.6	3.3
20°-30°	2334.1	4.8
30°-40°	3392.5	7.0
40°-50°	6105.4	12.6
50°-60°	10576.9	21.8
60°-70°	15096.4	31.2
70°-80°	7749.6	16.0
80°-90°	1085.0	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°	48459.2	100.0
0°-180°	48459.2	100.0



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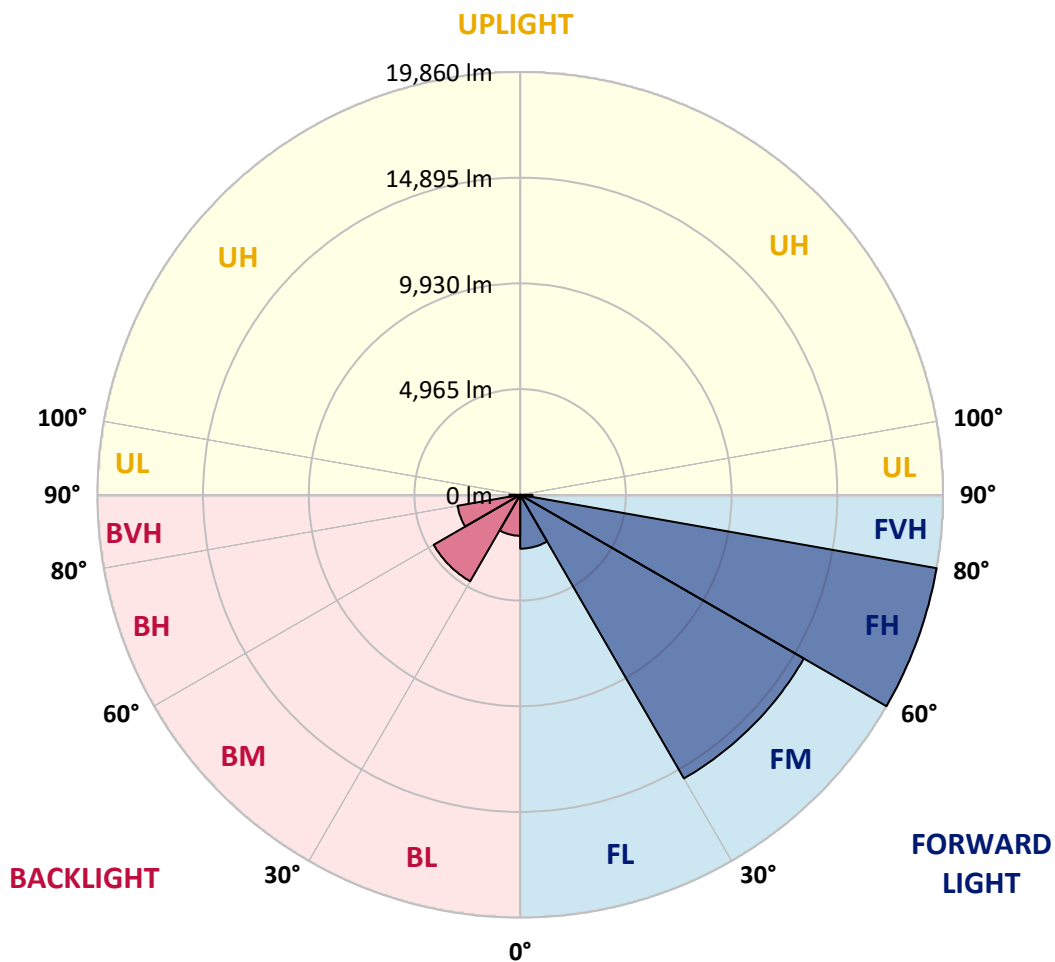
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.5	5.2			
FM	(30°-60°)	15382.3	31.7			
FH	(60°-80°)	19859.9	41.0			G5
FVH	(80°-90°)	579.0	1.2			G4/750
BL	(0°-30°)	1924.9	4.0	B3/2500		
BM	(30°-60°)	4692.5	9.7	B3/5000		
BH	(60°-80°)	2986.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	506.0	1.0			G4/750
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°	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8
2.5°	5952.9	5941.1	5936.3	5926.9	5915.1	5856.2	5844.4	5802.0	5743.1	5681.7	5618.0
5°	6344.2	6341.8	6315.9	6268.7	6193.4	6063.6	6033.0	5929.2	5790.2	5655.8	5521.4
7.5°	6688.4	6667.2	6617.7	6523.4	6391.3	6214.5	6172.1	6028.2	5837.4	5653.4	5471.9
10°	6940.6	6928.9	6820.4	6690.7	6518.7	6323.0	6273.5	6113.2	5903.3	5669.9	5443.6
12.5°	7084.4	7060.9	6935.9	6780.3	6575.2	6384.2	6334.7	6172.1	5936.3	5669.9	5403.5
15°	7075.0	7058.6	6933.6	6763.9	6556.4	6388.9	6344.2	6181.5	5929.2	5646.4	5351.7
17.5°	6886.4	6893.5	6787.4	6620.0	6450.3	6323.0	6282.9	6132.0	5882.1	5599.2	5290.4
20°	6556.4	6589.3	6518.7	6370.1	6275.8	6188.5	6162.7	6035.3	5809.0	5530.8	5224.3
22.5°	6226.3	6257.0	6228.6	6103.7	6089.6	6037.7	6023.5	5931.6	5745.4	5488.4	5184.3
25°	5983.4	6011.8	6007.1	5898.6	5941.1	5938.7	5926.9	5882.1	5731.2	5488.4	5191.4
27.5°	5917.5	5926.9	5917.5	5818.4	5877.4	5924.5	5915.1	5908.1	5773.6	5556.8	5281.0
30°	6143.8	6129.6	6056.6	5856.2	5910.4	5976.4	5967.0	5971.7	5901.0	5736.0	5481.3
32.5°	7046.7	6983.1	6752.1	6188.5	6044.8	6080.1	6084.8	6162.7	6174.4	6011.8	5792.6
35°	8397.6	8326.9	8027.5	7079.7	6462.1	6339.4	6339.4	6457.4	6528.1	6407.9	6275.8
37.5°	9828.6	9750.9	9590.6	8315.2	7339.1	6789.7	6778.0	6860.5	6961.9	6990.1	7023.2
40°	11455.4	11372.9	11417.7	9701.4	8562.6	7570.1	7402.7	7343.8	7617.3	7798.8	8062.9
42.5°	13235.3	13197.6	13214.1	11245.6	9956.0	8737.1	8499.0	8194.9	8525.0	8847.9	9401.9
45°	14883.3	14916.3	14899.8	12898.2	11507.3	10161.1	9908.8	9319.4	9642.4	10196.5	11099.4
47.5°	16326.1	16189.3	16401.6	14704.1	13244.8	11754.8	11443.5	10653.8	10981.5	11665.2	13192.9
50°	18077.8	18058.9	17747.7	17113.6	15345.4	13355.5	12947.7	12033.0	12542.2	13492.3	15831.0
52.5°	19919.0	19577.1	19291.9	18987.8	17573.3	14996.5	14496.6	13407.4	14376.3	15571.7	19046.7
55°	20296.3	20143.0	20496.7	21008.2	19721.0	16700.9	16118.6	15130.8	16441.6	17948.1	22755.1
57.5°	21102.6	21100.2	21831.0	22743.4	21932.4	18509.2	17922.2	17212.6	18763.8	20671.1	26692.3
60°	21647.1	21800.3	23158.3	24928.8	24103.7	20598.0	20058.1	19614.9	21404.3	23714.7	30360.7
62.5°	21932.4	22139.8	23992.9	25815.3	27173.3	24075.4	23535.5	22896.6	24898.2	27053.0	32506.0
65°	20746.6	21154.4	23863.2	26581.5	29860.9	29712.3	29469.5	28347.3	29266.7	29691.1	31730.4
67.5°	17464.8	17882.1	21036.5	25867.2	31779.9	35148.9	35200.8	33284.1	31954.3	29917.4	26678.1
70°	12443.2	12770.9	15380.7	21687.2	30318.2	38701.7	38878.5	35559.1	31419.2	26532.0	18638.9
72.5°	5908.1	6108.4	8579.2	14114.7	24058.9	35460.1	35801.8	32654.5	26715.9	19643.2	10168.1
75°	2171.3	2232.6	2899.8	6004.7	13954.4	26150.0	26553.1	23408.2	17709.9	9779.2	3873.5
77.5°	1301.4	1341.5	1626.7	2534.4	5488.4	14946.9	15543.4	12730.8	7739.9	3640.1	1904.9
80°	910.0	938.4	1167.0	1577.2	2593.3	5695.9	6226.3	5196.1	3083.7	2303.4	1386.2
82.5°	615.3	629.4	820.4	1065.6	1723.4	2034.5	2194.8	2310.4	2079.4	1714.0	879.3
85°	403.1	417.3	556.4	702.6	1096.3	1051.5	1075.0	1360.3	1518.3	1164.6	488.0
87.5°	231.1	240.5	334.8	374.8	537.6	445.6	450.3	716.7	971.3	785.1	297.1
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°	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8	5622.8
2.5°	5601.6	5570.9	5502.6	5460.1	5420.0	5410.6	5394.1	5391.8	5389.4	5389.4	5382.4
5°	5476.6	5424.7	5318.6	5259.7	5210.2	5205.5	5203.1	5214.9	5219.6	5224.3	5217.3
7.5°	5396.5	5325.7	5193.7	5108.8	5049.9	5035.8	5059.3	5113.5	5148.9	5163.0	5156.0
10°	5347.0	5259.7	5106.5	5014.5	4965.0	4957.9	4988.6	5052.3	5125.3	5153.6	5151.3
12.5°	5290.4	5191.4	5028.7	4932.1	4903.7	4917.8	4957.9	5016.9	5092.4	5137.2	5139.5
15°	5233.8	5118.2	4950.9	4866.0	4854.2	4873.0	4910.8	4955.6	5014.5	5059.3	5064.0
17.5°	5165.4	5045.2	4877.8	4790.6	4781.2	4790.6	4792.9	4816.5	4854.2	4896.7	4908.4
20°	5092.4	4969.7	4795.3	4708.0	4665.6	4627.9	4585.5	4590.2	4601.9	4644.4	4653.8
22.5°	5040.5	4917.8	4731.7	4611.4	4498.2	4385.1	4300.2	4288.4	4293.1	4328.5	4340.3
25°	5045.2	4915.5	4715.1	4507.6	4260.1	4078.6	3965.4	3946.5	3944.2	3970.2	3986.6
27.5°	5137.2	5007.4	4776.5	4401.6	4000.8	3732.0	3611.7	3597.6	3578.8	3585.9	3604.7
30°	5342.3	5222.0	4924.9	4293.1	3720.3	3392.5	3267.6	3253.4	3227.5	3215.7	3229.9
32.5°	5677.0	5577.9	5141.9	4189.4	3439.7	3102.5	2975.3	2944.6	2928.1	2914.0	2925.7
35°	6233.4	6191.0	5431.8	4076.3	3192.1	2878.6	2763.1	2715.9	2692.3	2718.3	2737.1
37.5°	7105.7	7129.3	5811.4	3899.4	3001.1	2730.1	2633.4	2579.2	2543.8	2565.0	2586.2
40°	8341.0	8357.5	6231.0	3649.5	2836.1	2642.8	2539.1	2489.6	2440.0	2402.4	2399.9
42.5°	9963.0	9795.7	6643.6	3378.4	2645.1	2588.6	2473.1	2411.8	2336.3	2232.6	2211.4
45°	11886.8	11299.8	6957.2	3067.2	2430.6	2522.6	2399.9	2315.1	2197.2	2084.1	2072.3
47.5°	14102.9	12914.8	7110.4	2744.2	2230.2	2425.9	2310.4	2176.0	2027.5	1970.9	1963.9
50°	16809.4	14831.4	7183.5	2430.6	2055.8	2298.6	2180.7	2022.8	1897.9	1886.0	1879.0
52.5°	19890.8	17137.1	7207.1	2173.7	1912.0	2133.6	2074.6	1921.4	1822.4	1831.8	1831.8
55°	23115.8	19518.2	6886.4	1987.4	1779.9	1963.9	2004.0	1881.3	1798.9	1836.5	1850.7
57.5°	26077.0	21628.2	5877.4	1843.6	1655.0	1834.2	1978.0	1919.1	1862.5	2015.7	2025.1
60°	28349.6	22875.4	4389.8	1714.0	1563.1	1789.3	2046.3	2062.9	2077.0	2442.4	2491.9
62.5°	28825.8	22460.4	3017.7	1612.6	1520.6	1827.1	2171.3	2173.7	2157.2	2411.8	2442.4
65°	26640.4	19836.6	2194.8	1556.0	1485.2	1895.5	2277.4	2227.9	2119.5	2312.8	2256.2
67.5°	21156.8	14944.6	1827.1	1513.6	1433.4	1890.7	2390.5	2277.4	2098.3	2265.6	2173.7
70°	13732.8	9036.5	1626.7	1478.2	1372.1	1801.2	2456.6	2272.7	2036.9	2107.7	1999.3
72.5°	6700.2	4040.9	1492.4	1426.3	1308.5	1676.2	2454.3	2230.2	1973.3	1968.6	1909.6
75°	2621.6	1850.7	1369.7	1348.6	1200.0	1534.7	2388.2	2169.0	1897.9	1822.4	1801.2
77.5°	1534.7	1320.2	1214.1	1233.0	1070.3	1393.4	2291.5	2062.9	1794.2	1704.5	1680.9
80°	1117.5	987.9	1034.9	1065.6	914.7	1251.9	2161.9	1933.2	1678.6	1723.4	1690.3
82.5°	716.7	636.6	839.3	869.9	761.5	1108.1	2020.4	1796.5	1515.9	1376.8	1343.9
85°	365.4	403.1	624.7	662.5	587.1	910.0	1848.4	1614.9	1332.0	1145.8	1164.6
87.5°	205.1	275.8	398.4	445.6	414.9	700.2	1499.4	1332.0	1086.9	884.0	778.0
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)