

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: P193245

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45672.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

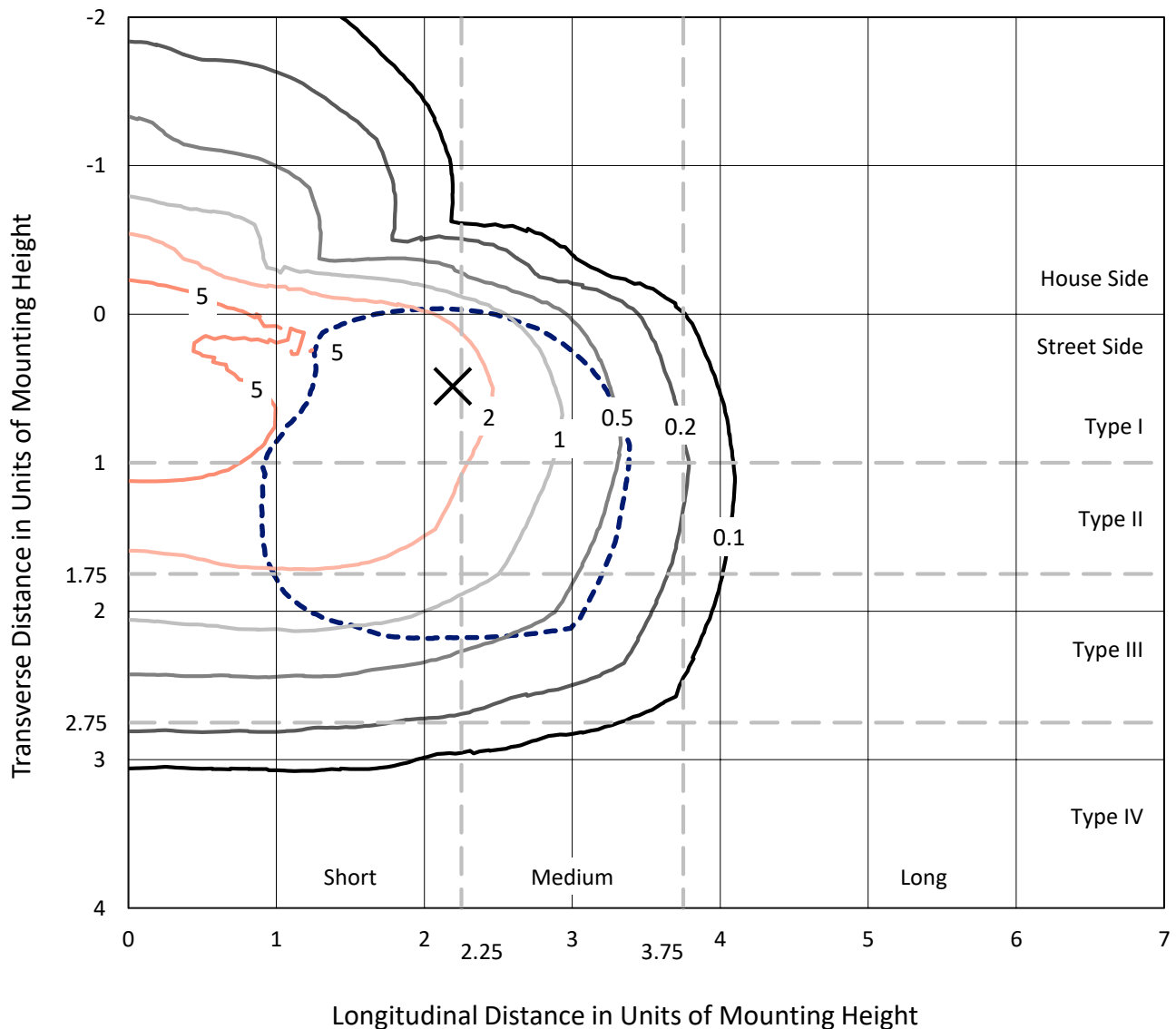


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

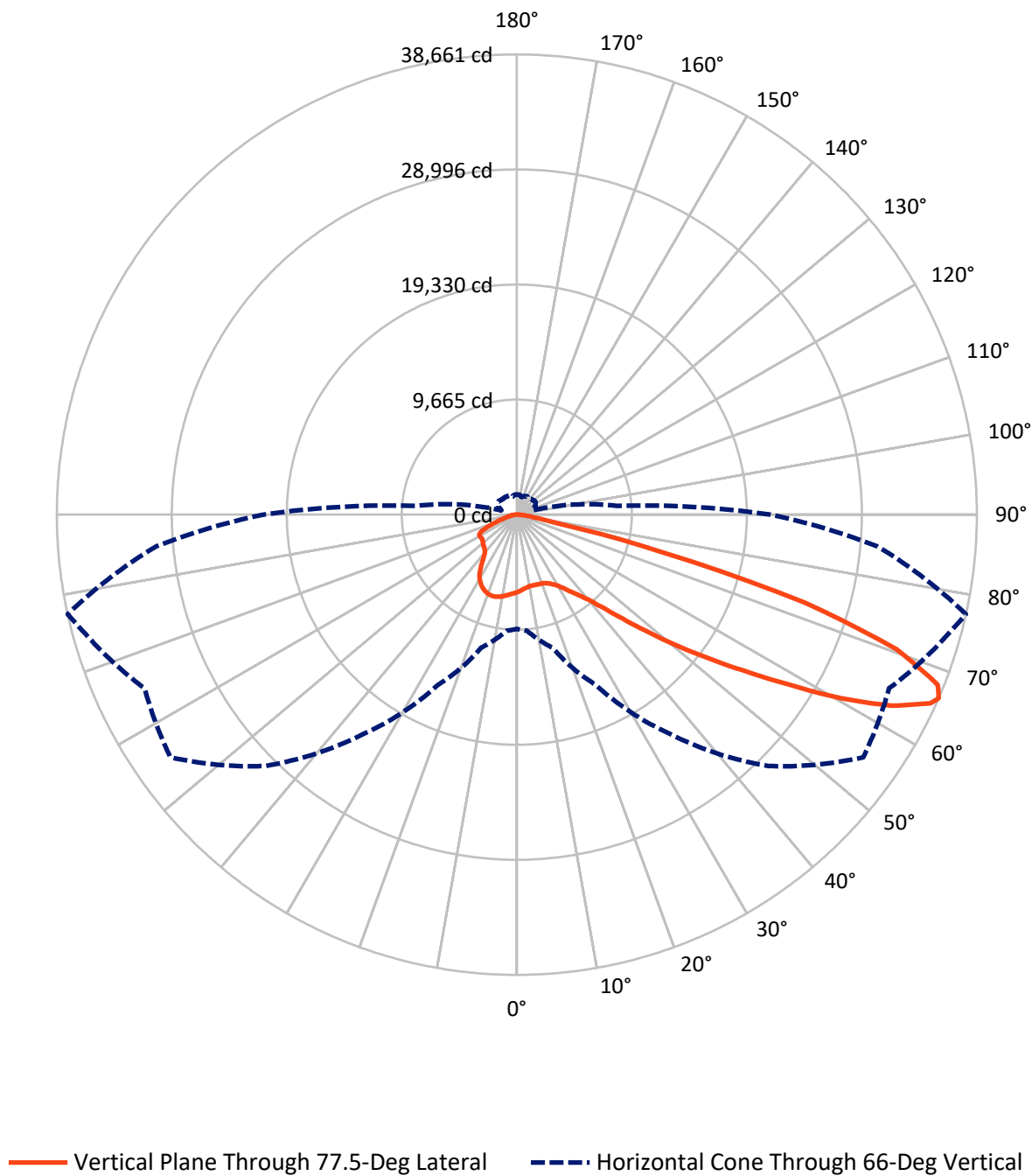


Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7802.9	0.0	7802.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	37869.7	0.0	37869.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	45672.5	0.0	45672.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.5	1.3
10°-20°	1640.5	3.6
20°-30°	2799.7	6.1
30°-40°	4481.8	9.8
40°-50°	6924.0	15.2
50°-60°	9820.6	21.5
60°-70°	13137.4	28.8
70°-80°	5705.3	12.5
80°-90°	581.8	1.3
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°	45672.5	100.0
0°-180°	45672.5	100.0

Coefficient of Utilization



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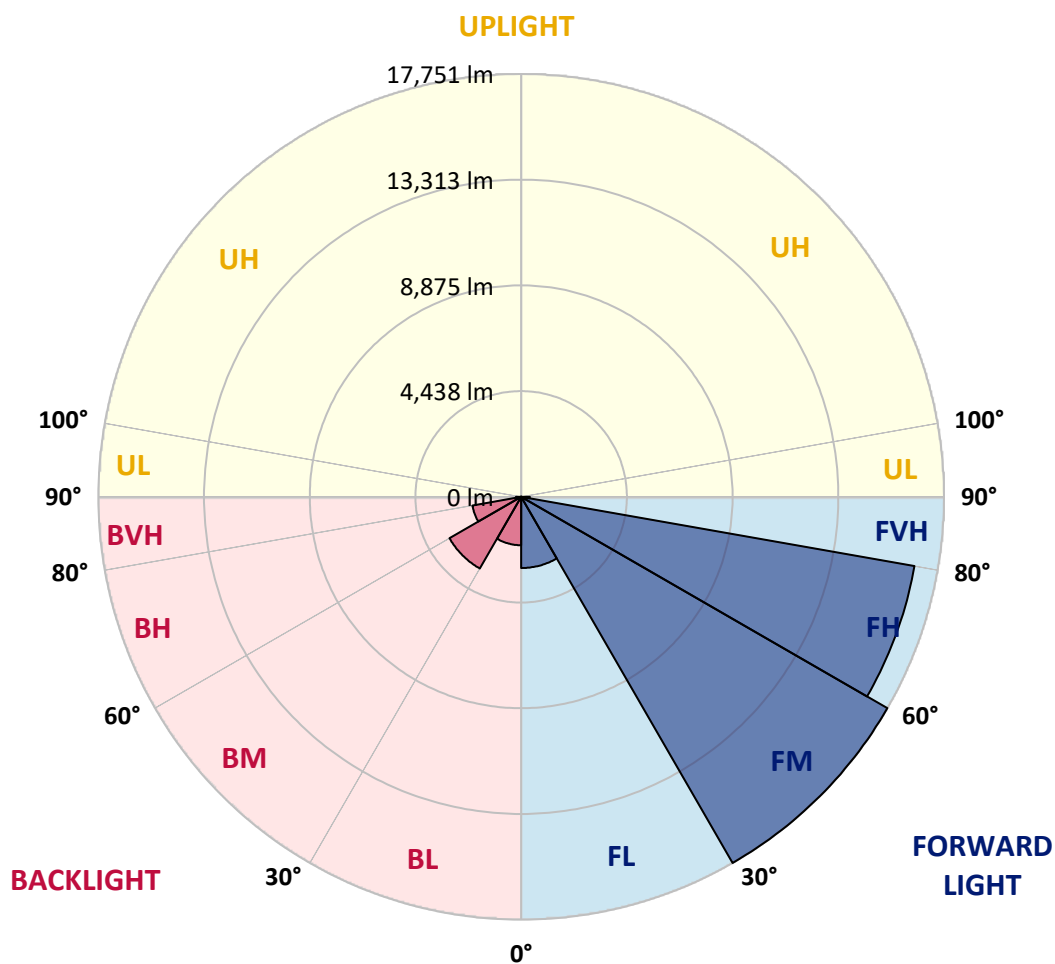
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2989.5	6.5			
FM	(30°-60°)	17750.7	38.9			
FH	(60°-80°)	16764.6	36.7			G5
FVH	(80°-90°)	364.9	0.8			G3/500
BL	(0°-30°)	2032.2	4.4	B3/2500		
BM	(30°-60°)	3475.7	7.6	B3/5000		
BH	(60°-80°)	2078.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	216.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6
2.5°	5757.5	5796.4	5828.8	5859.0	5919.4	6018.6	6133.0	6225.8	6359.7	6385.5	6456.7
5°	5228.8	5228.8	5254.8	5300.0	5382.1	5531.0	5686.4	5893.6	6184.8	6253.9	6443.8
7.5°	4972.1	4974.2	4989.4	5028.1	5099.3	5235.3	5405.8	5649.7	6044.6	6159.0	6482.7
10°	5067.0	5045.4	5013.1	4993.5	5004.4	5084.3	5246.1	5518.0	5958.2	6105.0	6569.0
12.5°	5597.9	5556.9	5444.6	5295.8	5153.3	5095.1	5190.1	5455.5	5921.6	6092.1	6683.4
15°	6465.4	6448.2	6238.8	5930.1	5584.9	5295.8	5231.0	5431.8	5925.9	6107.1	6819.3
17.5°	7553.0	7529.3	7253.0	6804.2	6241.0	5677.7	5375.5	5451.2	5941.0	6133.0	6951.0
20°	8651.4	8578.1	8280.3	7745.1	7022.2	6197.8	5615.2	5500.7	5960.4	6161.1	7089.1
22.5°	9471.4	9411.0	9143.5	8623.4	7790.4	6799.9	5936.7	5587.1	6023.0	6243.1	7259.5
25°	10192.2	10196.6	9931.1	9428.3	8567.3	7438.7	6351.0	5817.9	6182.7	6411.5	7492.6
27.5°	11083.6	11031.8	10783.6	10285.1	9335.5	8083.9	6851.6	6135.2	6420.1	6650.9	7799.0
30°	12149.6	12112.9	11825.9	11260.5	10188.0	8776.6	7423.5	6504.2	6726.5	6966.1	8200.5
32.5°	13403.4	13386.1	13088.2	12361.0	11172.0	9592.3	8094.7	6991.9	7184.1	7432.2	8776.6
35°	14875.2	14877.3	14525.6	13651.6	12248.8	10541.9	8856.4	7620.0	7740.8	7999.8	9462.8
37.5°	15781.5	15891.5	15760.0	14868.6	13468.2	11603.7	9844.8	8453.0	8375.3	8636.4	10198.8
40°	15975.8	16109.5	16526.0	16072.8	14832.0	12773.3	10720.9	9253.5	9156.5	9475.8	11146.1
42.5°	15703.9	15889.5	16769.8	17089.2	16280.0	14214.8	11899.3	10442.6	10319.6	10749.0	12324.5
45°	15542.0	15680.2	16698.6	17617.9	17536.0	15844.1	13399.1	11935.9	11890.6	12453.9	13683.9
47.5°	15261.5	15386.7	16366.4	17741.0	18274.0	17337.5	15201.0	13761.6	13850.1	14588.2	15218.2
50°	15412.5	15464.3	15995.1	17428.1	18487.6	18431.6	17214.5	15876.5	16178.6	17100.0	16955.5
52.5°	15391.0	15524.7	15952.0	16914.4	18515.7	19107.0	19197.6	18235.2	18871.8	19929.2	18882.6
55°	12443.1	12689.1	15444.9	16785.0	18614.9	19769.5	20962.9	20721.2	21908.1	23140.3	21057.9
57.5°	11882.1	12037.4	13565.2	17056.9	19141.5	21034.1	22926.8	23457.5	25442.8	26873.7	23707.8
60°	11771.9	11964.0	13545.9	17389.2	20209.8	23095.0	25837.8	26770.1	29743.8	31310.5	26780.9
62.5°	11428.8	11636.0	13418.4	17346.1	21726.9	25945.8	29564.7	30292.0	33822.6	35346.0	29351.1
65°	10341.2	10535.5	12380.5	16649.0	22749.8	28988.5	33975.7	33520.4	37042.2	38188.2	30632.9
66°	9596.7	9786.6	11562.6	15829.1	22512.4	29851.7	35538.1	34519.5	37763.1	38660.8	30382.6
67.5°	8235.0	8383.9	9974.3	13992.5	21250.0	30093.4	36852.3	35270.5	37838.5	38155.7	28951.8
70°	5202.9	5246.1	6482.7	9659.3	16085.8	26099.0	34851.8	33406.0	34718.0	33859.1	24271.2
72.5°	2257.3	2242.2	3111.8	4913.8	9106.8	17512.3	28192.2	27564.3	27234.1	25274.6	16990.1
75°	1255.9	1273.2	1616.4	2281.0	3700.9	8601.9	18442.3	17648.2	14901.1	12714.9	7704.1
77.5°	1007.8	1031.5	1340.2	1618.4	1661.7	2999.6	8629.9	7022.2	4227.6	3392.4	2140.7
80°	796.3	839.4	1169.6	1260.3	1120.0	1236.5	2788.2	2229.2	1672.4	1534.3	1109.2
82.5°	630.1	660.4	1003.4	953.9	783.4	833.0	1335.8	1301.3	1087.6	990.6	641.0
85°	453.2	509.2	824.4	718.6	513.6	561.0	886.9	850.2	623.7	509.2	282.7
87.5°	185.6	241.7	582.7	476.9	287.1	261.1	442.4	416.5	295.6	215.8	140.3
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°	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6	6508.6
2.5°	6502.1	6553.9	6620.8	6661.7	6683.4	6698.4	6722.1	6720.0	6726.5	6728.6	6737.3
5°	6545.2	6631.6	6728.6	6754.5	6754.5	6730.8	6707.1	6668.2	6653.2	6648.9	6653.2
7.5°	6657.5	6752.4	6836.6	6806.5	6741.7	6646.7	6523.7	6415.8	6357.5	6338.0	6333.8
10°	6799.9	6914.3	6948.8	6834.3	6644.5	6415.8	6171.9	5994.9	5893.6	5865.5	5856.9
12.5°	6972.5	7080.4	7032.9	6791.2	6439.5	6070.5	5733.8	5451.2	5239.6	5172.8	5168.4
15°	7162.4	7246.6	7080.4	6657.5	6133.0	5589.2	4989.4	4501.6	4238.2	4154.1	4147.7
17.5°	7339.4	7382.5	7052.3	6424.5	5682.0	4801.6	4005.2	3629.8	3539.1	3560.8	3565.0
20°	7490.5	7490.5	6957.4	6089.9	4972.1	3763.6	3260.8	3254.3	3319.0	3383.8	3396.8
22.5°	7656.7	7557.4	6791.2	5617.3	3966.4	3079.5	3006.2	3066.6	3139.9	3211.1	3221.9
25°	7861.6	7611.3	6560.4	4900.9	3118.4	2796.8	2824.8	2874.5	2911.1	2956.4	2962.9
27.5°	8090.4	7680.4	6256.0	3914.6	2706.2	2619.8	2641.5	2658.8	2654.4	2671.6	2676.0
30°	8364.5	7760.2	5839.6	3060.1	2535.7	2468.7	2429.9	2414.8	2414.8	2442.8	2453.6
32.5°	8731.4	7878.9	5241.8	2622.0	2453.6	2360.9	2235.7	2179.6	2201.1	2296.1	2317.7
35°	9134.8	8006.2	4432.5	2473.1	2436.4	2311.3	2117.0	2013.4	2015.7	2104.0	2132.0
37.5°	9575.1	8168.1	3545.6	2445.0	2475.3	2313.3	2054.4	1912.0	1853.7	1853.7	1864.5
40°	10138.2	8334.2	2870.1	2464.5	2557.2	2339.2	2022.1	1832.2	1668.2	1672.4	1681.1
42.5°	10872.1	8476.7	2507.6	2505.5	2656.5	2373.7	2019.8	1726.4	1583.9	1681.1	1769.6
45°	11687.8	8547.9	2347.9	2542.1	2736.4	2395.4	1985.4	1709.2	1594.7	1883.9	2052.2
47.5°	12626.5	8506.9	2259.5	2555.1	2755.7	2395.4	1946.6	1750.2	1670.2	2181.8	2378.1
50°	13655.9	8388.2	2173.1	2529.2	2749.3	2391.0	1983.2	1791.2	1698.3	2233.6	2369.5
52.5°	14866.6	8289.0	2082.5	2473.1	2703.9	2367.3	2026.3	1774.0	1609.8	2030.7	2125.6
55°	16247.6	8317.0	1981.1	2393.3	2632.8	2322.0	2011.3	1704.9	1517.1	1789.0	1847.2
57.5°	18012.9	8651.4	1860.2	2291.8	2535.7	2246.5	1957.3	1672.4	1488.9	1622.8	1657.4
60°	19983.2	9234.1	1709.2	2190.4	2414.8	2125.6	1916.3	1687.5	1502.0	1609.8	1627.1
62.5°	21429.0	9573.0	1579.7	2041.5	2250.8	1991.8	1864.5	1706.9	1536.5	1655.2	1650.9
65°	21821.8	9016.2	1417.8	1823.5	2028.5	1851.6	1799.8	1728.6	1551.6	1691.9	1672.4
66°	21271.4	8416.2	1346.6	1722.2	1916.3	1782.6	1767.4	1726.4	1545.2	1696.1	1663.8
67.5°	19935.7	7186.2	1223.6	1573.3	1737.2	1678.9	1715.6	1706.9	1527.9	1691.9	1646.5
70°	16258.5	4903.0	1046.6	1309.9	1445.8	1478.3	1616.4	1637.9	1471.7	1616.4	1517.1
72.5°	11359.8	2986.7	925.8	1016.4	1169.6	1260.3	1480.4	1543.0	1396.3	1411.3	1316.3
75°	5489.9	1586.1	839.4	787.6	908.5	1053.1	1316.3	1413.5	1277.6	1180.4	1145.9
77.5°	1711.3	968.9	712.2	634.5	712.2	850.2	1100.6	1238.7	1137.3	988.4	975.4
80°	919.3	712.2	548.2	509.2	563.2	666.8	865.4	1033.7	977.6	886.9	792.0
82.5°	606.4	461.8	405.7	394.9	429.5	509.2	643.1	856.7	856.7	759.6	552.5
85°	312.9	282.7	278.4	278.4	299.9	338.8	438.1	660.4	703.5	401.4	332.3
87.5°	155.3	161.8	151.1	157.6	168.4	166.2	209.3	332.3	397.0	243.8	202.9
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)