

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: P193237

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193237
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-09-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52622.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - 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

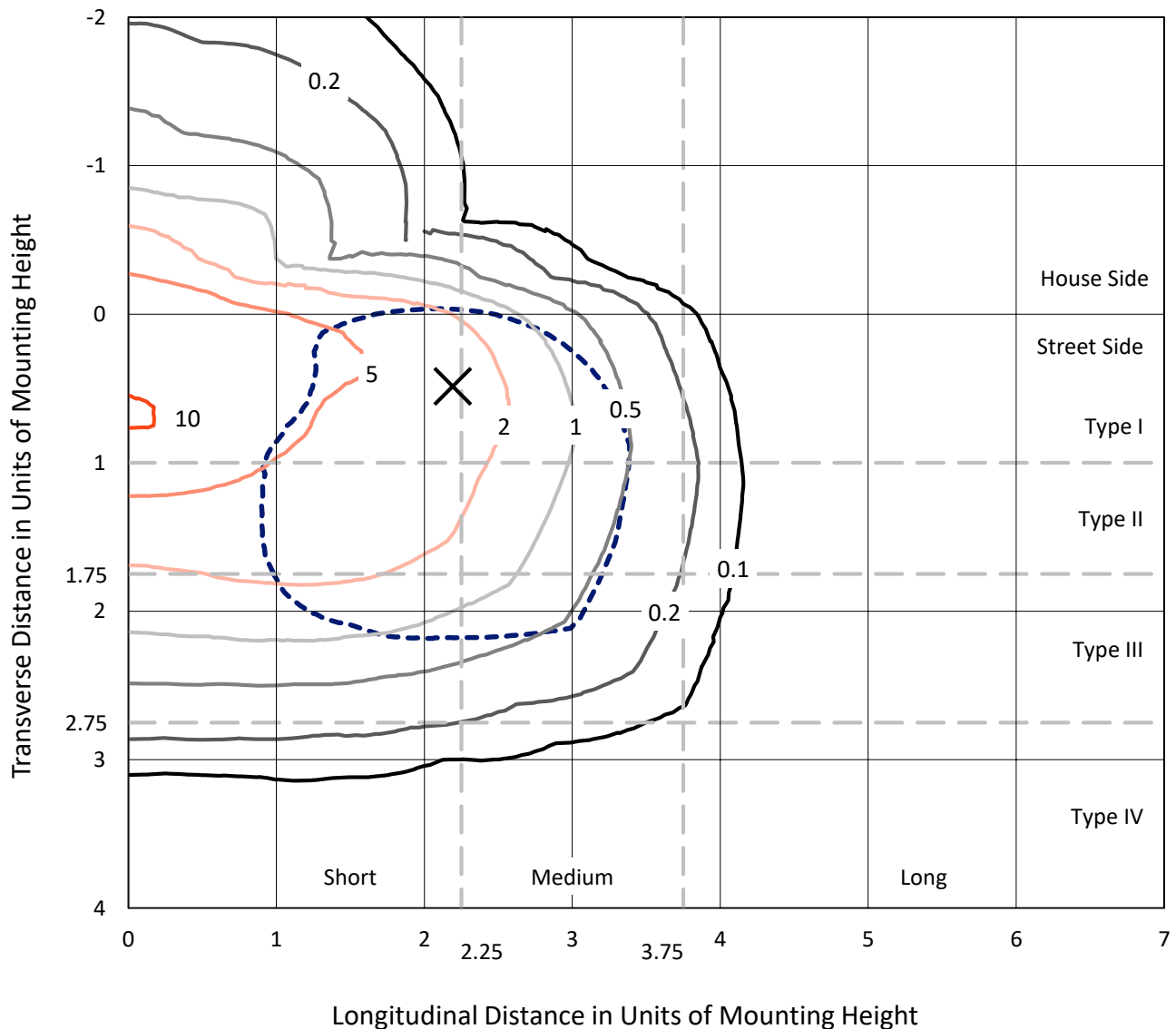


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

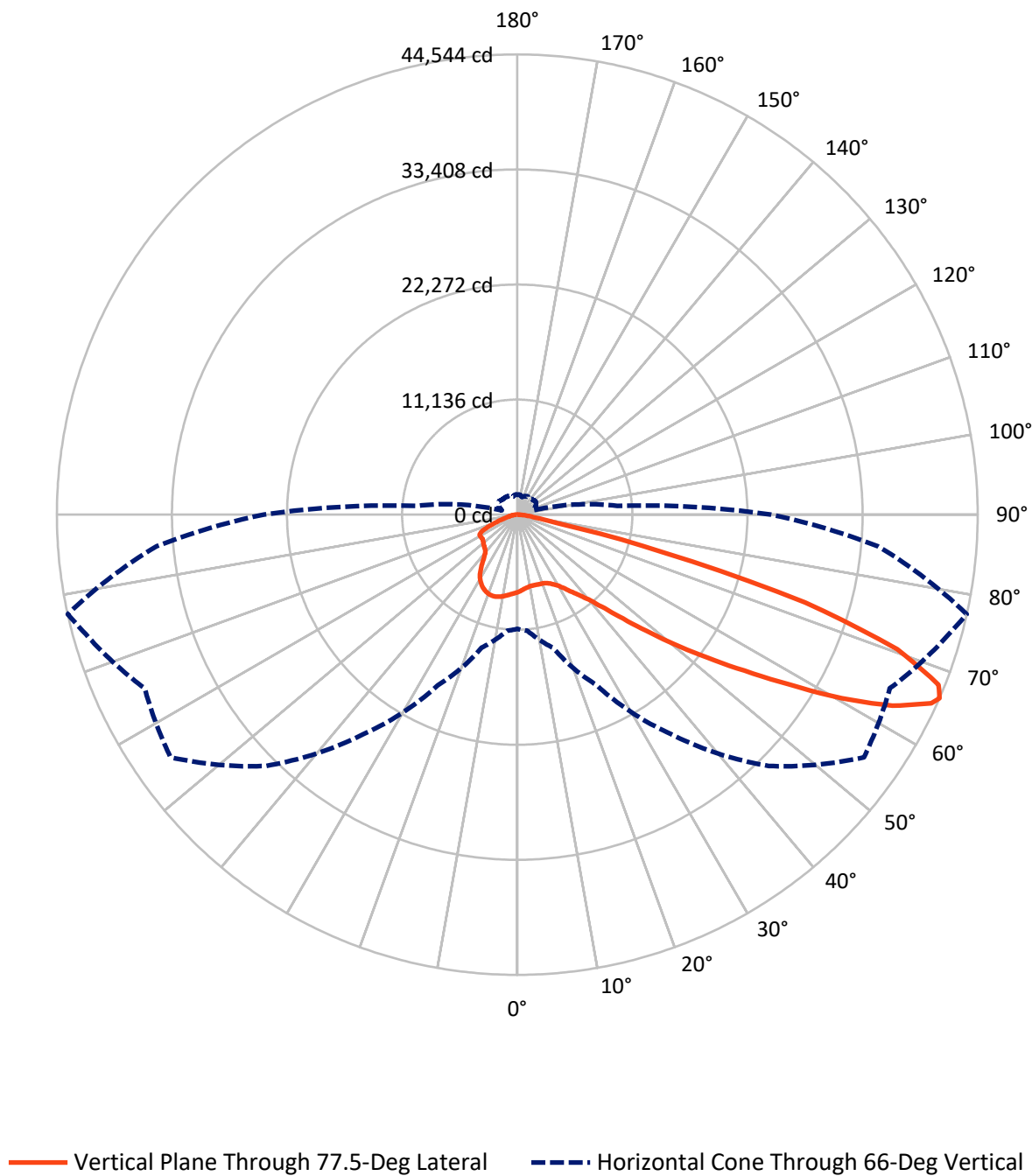


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8990.2	0.0	8990.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	43632.3	0.0	43632.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	52622.5	0.0	52622.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.0	1.3
10°-20°	1890.1	3.6
20°-30°	3225.7	6.1
30°-40°	5163.8	9.8
40°-50°	7977.6	15.2
50°-60°	11315.0	21.5
60°-70°	15136.5	28.8
70°-80°	6573.5	12.5
80°-90°	670.3	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°	52622.5	100.0
0°-180°	52622.5	100.0

Coefficient of Utilization



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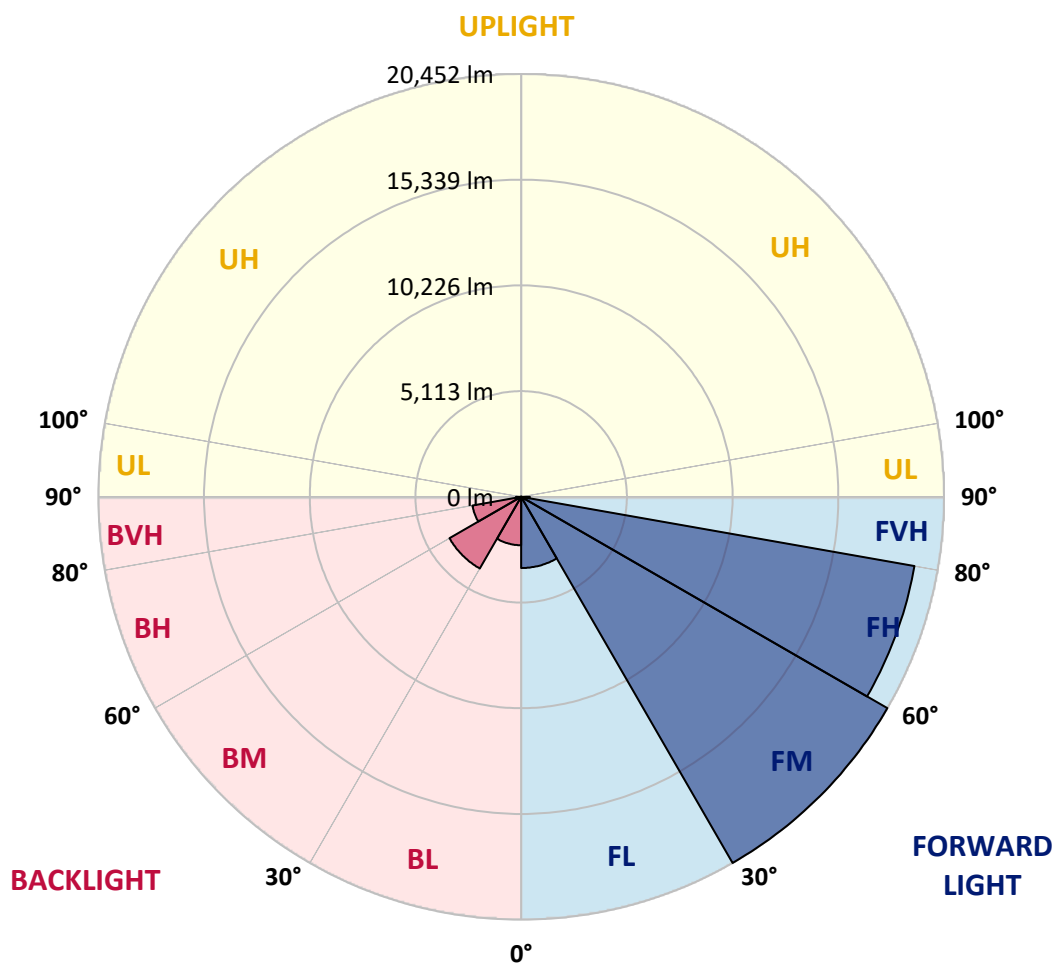
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3444.4	6.5			
FM	(30°-60°)	20451.9	38.9			
FH	(60°-80°)	19315.7	36.7			G5
FVH	(80°-90°)	420.4	0.8			G3/500
BL	(0°-30°)	2341.4	4.4	B3/2500		
BM	(30°-60°)	4004.6	7.6	B3/5000		
BH	(60°-80°)	2394.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	249.9	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0
2.5°	6633.6	6678.5	6715.7	6750.6	6820.2	6934.5	7066.4	7173.2	7327.4	7357.2	7439.3
5°	6024.5	6024.5	6054.4	6106.6	6201.1	6372.6	6551.6	6790.4	7126.0	7205.5	7424.3
7.5°	5728.7	5731.0	5748.5	5793.3	5875.3	6031.9	6228.5	6509.3	6964.4	7096.2	7469.1
10°	5838.0	5813.1	5775.9	5753.5	5765.9	5857.9	6044.4	6357.7	6865.0	7034.0	7568.6
12.5°	6449.7	6402.5	6273.1	6101.6	5937.4	5870.4	5979.8	6285.5	6822.7	7019.1	7700.4
15°	7449.2	7429.3	7188.1	6832.6	6434.9	6101.6	6027.1	6258.3	6827.6	7036.6	7857.1
17.5°	8702.4	8675.0	8356.8	7839.6	7190.7	6541.7	6193.6	6280.7	6845.1	7066.4	8008.7
20°	9967.9	9883.4	9540.3	8923.6	8090.7	7140.9	6469.6	6337.8	6867.4	7098.7	8167.7
22.5°	10912.9	10843.1	10534.9	9935.6	8975.8	7834.7	6840.0	6437.2	6939.5	7193.1	8364.3
25°	11743.1	11748.2	11442.4	10863.1	9871.0	8570.7	7317.4	6703.3	7123.4	7387.1	8632.8
27.5°	12770.1	12710.4	12424.5	11850.1	10756.1	9314.1	7894.3	7068.8	7397.1	7663.1	8985.8
30°	13998.4	13956.1	13625.4	12974.0	11738.3	10112.2	8553.2	7494.0	7750.1	8026.0	9448.3
32.5°	15443.0	15423.1	15080.0	14242.1	12872.1	11052.0	9326.5	8055.9	8277.2	8563.0	10112.2
35°	17138.7	17141.2	16735.9	15729.0	14112.8	12146.1	10204.2	8779.4	8918.8	9217.1	10902.9
37.5°	18183.0	18309.7	18158.2	17131.2	15517.5	13369.3	11343.0	9739.2	9649.7	9950.6	11750.8
40°	18406.8	18561.0	19040.8	18518.7	17089.0	14717.0	12352.5	10661.6	10549.7	10917.7	12842.3
42.5°	18093.5	18307.3	19321.7	19689.7	18757.3	16377.9	13710.0	12031.6	11889.9	12384.7	14199.8
45°	17907.0	18066.1	19239.7	20299.0	20204.4	18255.1	15438.0	13752.3	13700.0	14349.0	15766.2
47.5°	17583.7	17728.0	18856.8	20440.7	21054.8	19975.7	17514.1	15855.7	15957.7	16808.0	17534.0
50°	17757.8	17817.5	18429.2	20080.1	21300.9	21236.2	19834.0	18292.4	18640.5	19702.1	19535.5
52.5°	17733.0	17887.2	18379.4	19488.3	21333.3	22014.5	22119.0	21010.0	21743.4	22961.8	21755.9
55°	14336.6	14620.0	17795.2	19339.2	21447.6	22777.9	24152.9	23874.4	25241.8	26661.6	24262.2
57.5°	13690.0	13869.2	15629.4	19652.5	22054.3	24234.9	26415.4	27027.1	29314.6	30963.1	27315.5
60°	13563.2	13784.5	15607.1	20035.3	23285.2	26609.3	29769.6	30843.7	34269.9	36075.1	30856.1
62.5°	13167.9	13406.6	15460.4	19985.6	25033.1	29893.9	34063.5	34901.4	38969.3	40724.6	33817.4
65°	11914.8	12138.6	14264.5	19182.5	26211.6	33399.7	39145.7	38621.2	42679.0	43999.2	35294.3
66°	11057.0	11275.8	13322.1	18237.7	25938.0	34394.3	40945.9	39772.3	43509.4	44543.7	35005.9
67.5°	9488.1	9659.6	11492.1	16121.7	24483.5	34672.8	42460.2	40637.6	43596.4	43961.9	33357.4
70°	5994.7	6044.4	7469.1	11129.1	18533.5	30070.5	40155.3	38489.5	40001.1	39011.4	27964.5
72.5°	2600.8	2583.3	3585.4	5661.5	10492.6	20177.1	32482.2	31758.7	31378.2	29120.7	19575.3
75°	1447.0	1467.1	1862.4	2628.1	4264.2	9910.8	21248.7	20333.7	17168.6	14649.8	8876.4
77.5°	1161.1	1188.5	1544.1	1864.8	1914.5	3456.1	9943.1	8090.7	4870.9	3908.6	2466.5
80°	917.4	967.2	1347.6	1452.0	1290.5	1424.7	3212.4	2568.4	1927.0	1767.9	1278.0
82.5°	726.0	760.9	1156.2	1099.0	902.6	959.8	1539.0	1499.2	1253.1	1141.2	738.5
85°	522.1	586.8	949.8	827.9	591.7	646.5	1021.9	979.6	718.6	586.8	325.7
87.5°	213.8	278.5	671.3	549.5	330.7	300.9	509.7	479.8	340.7	248.7	161.6
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°	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0	7499.0
2.5°	7491.5	7551.1	7628.3	7675.5	7700.4	7717.7	7745.1	7742.6	7750.1	7752.6	7762.6
5°	7541.2	7640.7	7752.6	7782.4	7782.4	7755.1	7727.7	7683.0	7665.5	7660.6	7665.5
7.5°	7670.5	7780.0	7876.9	7842.1	7767.5	7658.1	7516.4	7392.1	7325.0	7302.6	7297.5
10°	7834.7	7966.4	8006.2	7874.5	7655.6	7392.1	7111.1	6907.2	6790.4	6758.0	6748.1
12.5°	8033.5	8157.9	8103.1	7824.7	7419.4	6994.2	6606.4	6280.7	6037.0	5959.9	5954.9
15°	8252.4	8349.3	8157.9	7670.5	7066.4	6439.7	5748.5	5186.6	4883.3	4786.3	4778.9
17.5°	8456.2	8506.0	8125.5	7402.0	6546.7	5532.3	4614.8	4182.1	4077.7	4102.5	4107.5
20°	8630.3	8630.3	8016.2	7016.6	5728.7	4336.3	3757.0	3749.4	3824.1	3898.7	3913.5
22.5°	8821.7	8707.3	7824.7	6472.1	4570.0	3548.0	3463.5	3533.1	3617.7	3699.7	3712.2
25°	9057.9	8769.4	7558.7	5646.6	3592.9	3222.4	3254.8	3311.8	3354.2	3406.3	3413.8
27.5°	9321.5	8849.1	7208.1	4510.3	3117.9	3018.5	3043.3	3063.2	3058.2	3078.2	3083.1
30°	9637.2	8941.1	6728.1	3525.7	2921.5	2844.4	2799.7	2782.3	2782.3	2814.6	2827.1
32.5°	10059.9	9077.8	6039.5	3021.0	2827.1	2720.1	2575.9	2511.3	2536.1	2645.5	2670.4
35°	10525.0	9224.5	5107.1	2849.4	2807.1	2662.9	2439.1	2319.8	2322.3	2424.3	2456.5
37.5°	11032.1	9411.0	4085.1	2817.0	2851.8	2665.4	2367.0	2203.0	2135.8	2135.8	2148.2
40°	11681.1	9602.5	3307.0	2839.4	2946.4	2695.2	2329.7	2111.0	1922.0	1927.0	1936.9
42.5°	12526.5	9766.5	2889.2	2886.7	3060.8	2735.1	2327.2	1989.1	1825.0	1936.9	2038.9
45°	13466.3	9848.6	2705.2	2929.0	3152.7	2759.9	2287.5	1969.2	1837.4	2170.7	2364.6
47.5°	14547.9	9801.3	2603.2	2943.9	3175.1	2759.9	2242.8	2016.5	1924.5	2513.7	2740.0
50°	15733.9	9664.6	2503.7	2914.1	3167.7	2755.0	2285.0	2063.7	1956.9	2573.4	2730.1
52.5°	17128.8	9550.3	2399.4	2849.4	3115.4	2727.5	2334.8	2043.8	1854.9	2339.7	2449.0
55°	18720.1	9582.6	2282.5	2757.3	3033.4	2675.3	2317.3	1964.3	1747.9	2061.1	2128.4
57.5°	20753.9	9967.9	2143.2	2640.6	2921.5	2588.4	2255.1	1927.0	1715.6	1869.8	1909.6
60°	23023.9	10639.2	1969.2	2523.7	2782.3	2449.0	2207.9	1944.4	1730.5	1854.9	1874.8
62.5°	24689.9	11029.6	1820.0	2352.2	2593.3	2295.0	2148.2	1966.7	1770.3	1907.0	1902.1
65°	25142.4	10388.2	1633.5	2101.0	2337.2	2133.3	2073.6	1991.6	1787.7	1949.3	1927.0
66°	24508.4	9697.0	1551.5	1984.1	2207.9	2053.7	2036.4	1989.1	1780.3	1954.3	1917.1
67.5°	22969.2	8279.6	1409.8	1812.6	2001.5	1934.4	1976.7	1966.7	1760.3	1949.3	1897.1
70°	18732.5	5649.0	1205.9	1509.2	1665.8	1703.2	1862.4	1887.1	1695.7	1862.4	1747.9
72.5°	13088.3	3441.1	1066.7	1171.0	1347.6	1452.0	1705.6	1777.7	1608.8	1626.1	1516.7
75°	6325.3	1827.5	967.2	907.5	1046.8	1213.4	1516.7	1628.6	1471.9	1360.1	1320.3
77.5°	1971.7	1116.4	820.5	731.1	820.5	979.6	1268.1	1427.2	1310.3	1138.8	1123.8
80°	1059.2	820.5	631.5	586.8	649.0	768.3	997.0	1191.0	1126.4	1021.9	912.6
82.5°	698.7	532.1	467.4	454.9	494.8	586.8	741.0	987.0	987.0	875.1	636.6
85°	360.5	325.7	320.7	320.7	345.6	390.4	504.8	760.9	810.6	462.5	383.0
87.5°	178.9	186.5	174.0	181.5	193.9	191.4	241.1	383.0	457.5	281.1	233.7
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)