

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: P194844

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194844
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-06-LED-E1-T3R-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 39930 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

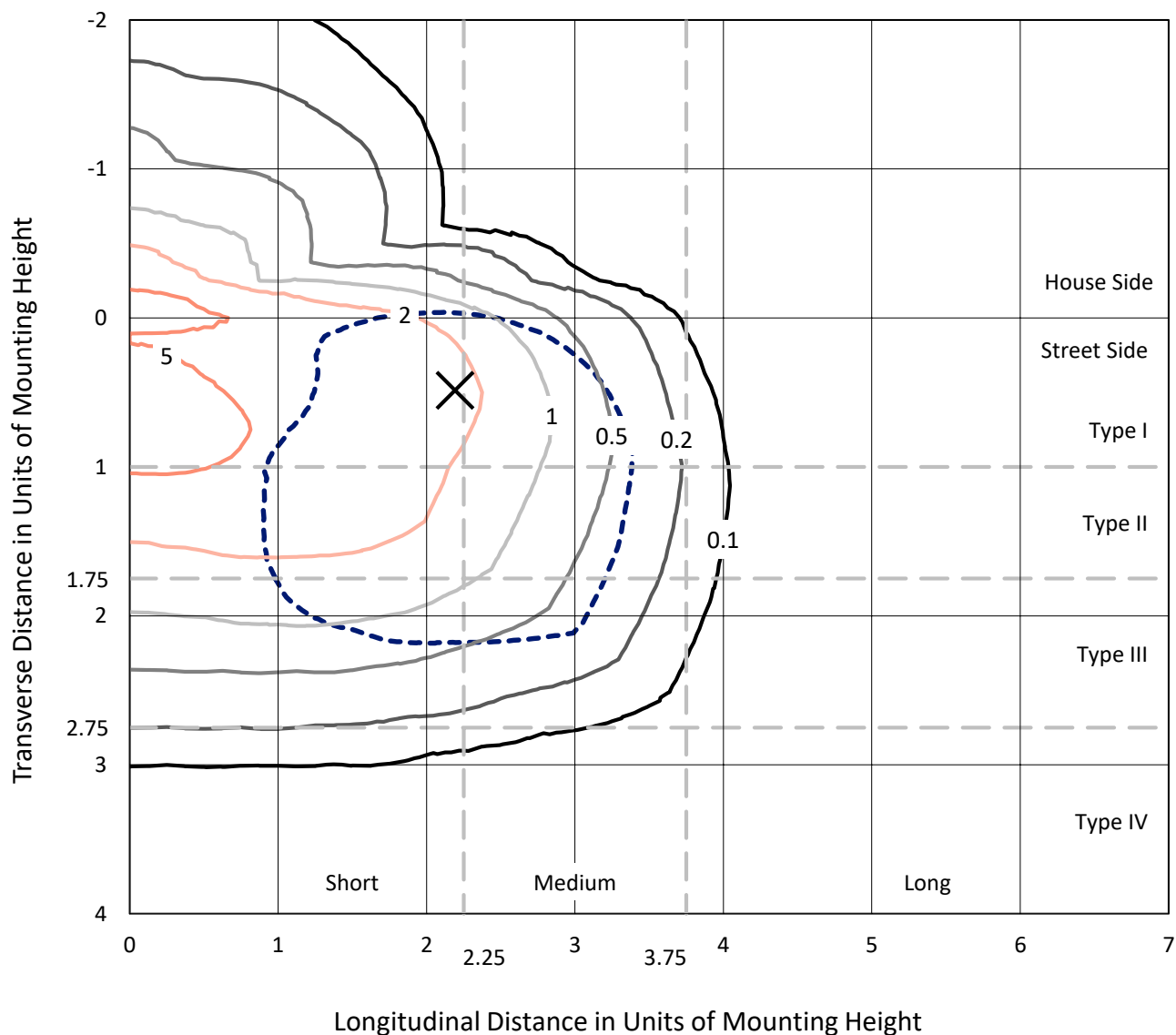


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

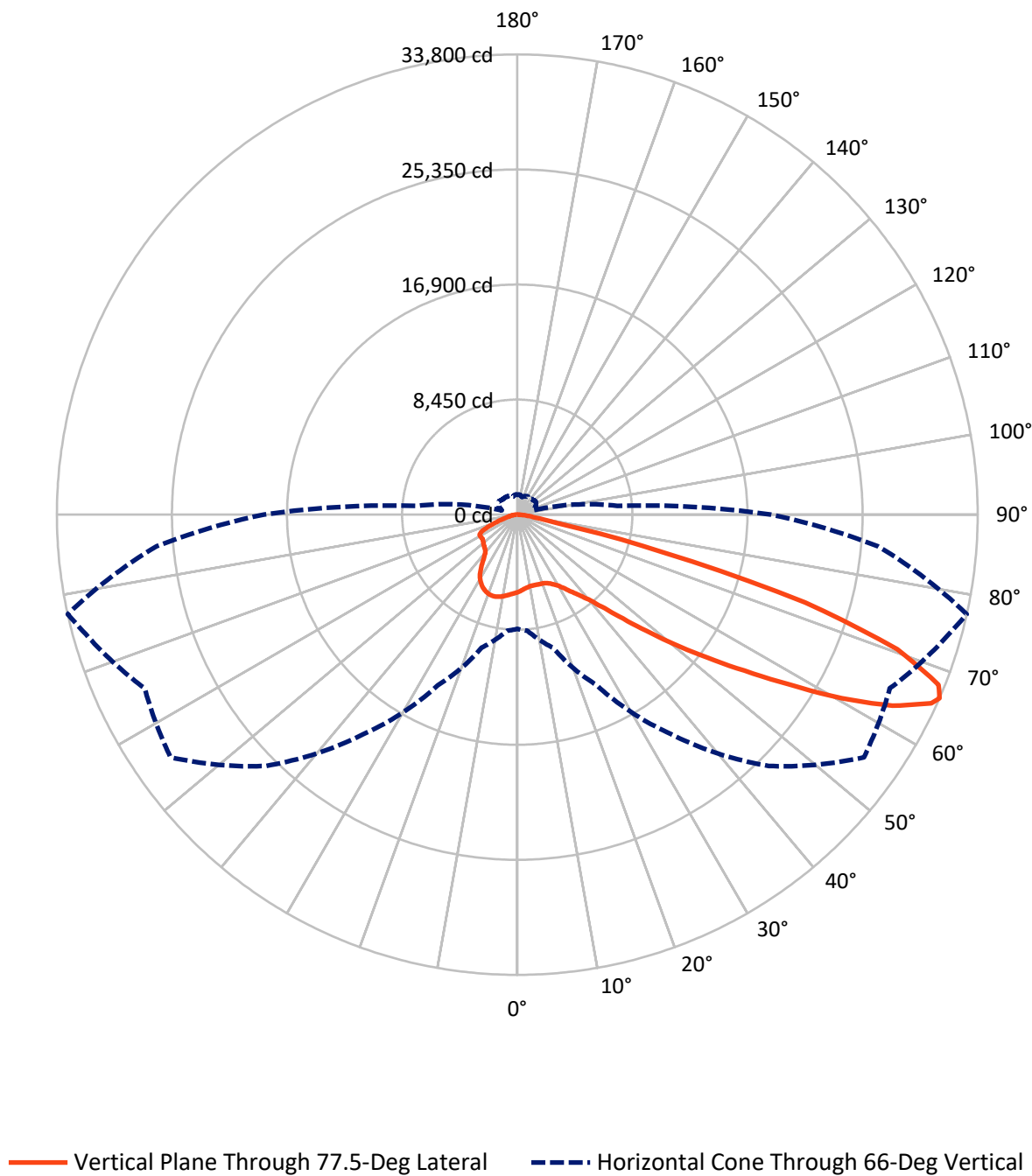


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6821.8	0.0	6821.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	33108.2	0.0	33108.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	39930.0	0.0	39930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.4	1.3
10°-20°	1434.2	3.6
20°-30°	2447.7	6.1
30°-40°	3918.3	9.8
40°-50°	6053.4	15.2
50°-60°	8585.9	21.5
60°-70°	11485.6	28.8
70°-80°	4988.0	12.5
80°-90°	508.6	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°	39930.0	100.0
0°-180°	39930.0	100.0

Coefficient of Utilization



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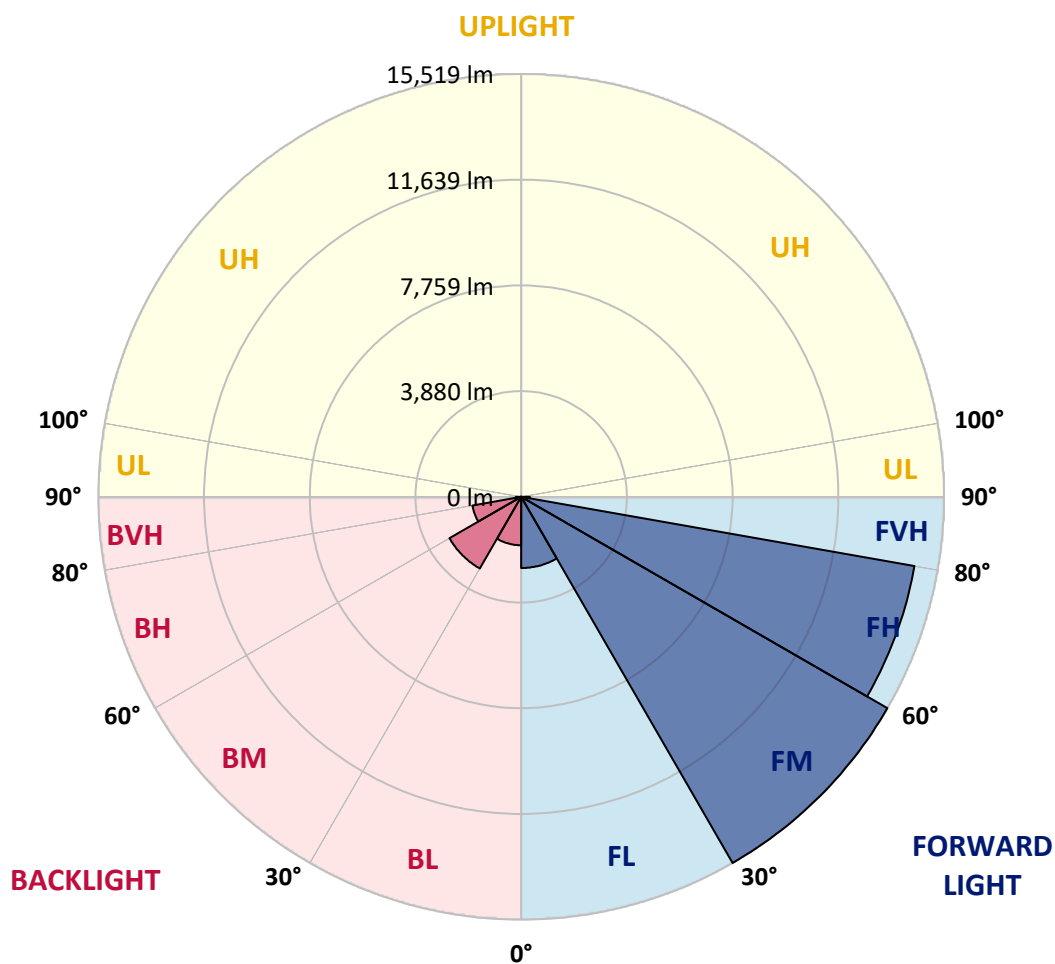
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2613.6	6.5			
FM	(30°-60°)	15518.9	38.9			
FH	(60°-80°)	14656.7	36.7			G5
FVH	(80°-90°)	319.0	0.8			G3/500
BL	(0°-30°)	1776.7	4.4	B3/2500		
BM	(30°-60°)	3038.7	7.6	B3/5000		
BH	(60°-80°)	1816.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	189.6	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°	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2
2.5°	5033.7	5067.6	5095.9	5122.3	5175.2	5261.9	5361.9	5443.1	5560.0	5582.7	5644.9
5°	4571.4	4571.4	4594.1	4633.7	4705.4	4835.6	4971.4	5152.5	5407.2	5467.6	5633.6
7.5°	4346.9	4348.8	4362.0	4396.0	4458.2	4577.1	4726.1	4939.3	5284.6	5384.6	5667.6
10°	4429.9	4411.0	4382.7	4365.8	4375.2	4445.0	4586.5	4824.2	5209.1	5337.4	5743.0
12.5°	4894.0	4858.2	4760.1	4629.9	4505.4	4454.4	4537.5	4769.5	5177.0	5326.1	5843.0
15°	5652.5	5637.4	5454.4	5184.6	4882.7	4629.9	4573.3	4748.8	5180.8	5339.3	5961.9
17.5°	6603.4	6582.6	6341.1	5948.7	5456.3	4963.8	4699.7	4765.7	5194.0	5361.9	6077.0
20°	7563.7	7499.5	7239.2	6771.3	6139.2	5418.5	4909.1	4809.1	5211.0	5386.5	6197.7
22.5°	8280.6	8227.8	7993.8	7539.2	6810.9	5944.9	5190.2	4884.6	5265.7	5458.2	6346.8
25°	8910.8	8914.5	8682.5	8242.9	7490.1	6503.4	5552.5	5086.5	5405.3	5605.3	6550.5
27.5°	9690.0	9644.7	9427.7	8991.9	8161.8	7067.5	5990.2	5363.8	5612.9	5814.7	6818.4
30°	10622.0	10589.9	10339.0	9844.7	8907.0	7673.1	6490.2	5686.4	5880.8	6090.2	7169.4
32.5°	11718.1	11703.1	11442.7	10806.9	9767.3	8386.3	7076.9	6112.8	6280.7	6497.7	7673.1
35°	13004.9	13006.7	12699.2	11935.1	10708.8	9216.4	7742.9	6661.9	6767.5	6993.9	8273.1
37.5°	13797.3	13893.5	13778.4	12999.2	11774.7	10144.7	8607.0	7390.1	7322.2	7550.5	8916.4
40°	13967.1	14084.0	14448.2	14052.0	12967.1	11167.2	9373.0	8090.1	8005.2	8284.4	9744.7
42.5°	13729.3	13891.6	14661.4	14940.6	14233.1	12427.5	10403.1	9129.6	9022.1	9397.5	10774.8
45°	13587.8	13708.6	14599.1	15402.8	15331.1	13852.0	11714.4	10435.2	10395.6	10888.0	11963.4
47.5°	13342.6	13452.0	14308.6	15510.4	15976.4	15157.6	13289.7	12031.3	12108.7	12753.9	13304.8
50°	13474.6	13519.9	13984.0	15236.8	16163.2	16114.1	15050.0	13880.3	14144.4	14950.0	14823.6
52.5°	13455.8	13572.7	13946.3	14787.8	16187.7	16704.6	16783.9	15942.4	16499.0	17423.5	16508.4
55°	10878.6	11093.7	13502.9	14674.6	16274.5	17283.8	18327.2	18115.9	19153.5	20230.8	18410.2
57.5°	10388.0	10523.9	11859.6	14912.3	16734.8	18389.4	20044.0	20508.2	22243.9	23494.8	20727.0
60°	10291.8	10459.7	11842.7	15202.8	17668.7	20191.2	22589.2	23404.2	26004.1	27373.8	23413.6
62.5°	9991.8	10173.0	11731.4	15165.1	18995.1	22683.5	25847.5	26483.3	29569.9	30901.9	25660.7
65°	9041.0	9210.8	10823.9	14555.7	19889.3	25343.7	29703.8	29305.7	32384.8	33386.6	26781.4
66°	8390.0	8556.1	10108.8	13838.8	19681.8	26098.4	31069.8	30179.3	33014.9	33799.8	26562.5
67.5°	7199.6	7329.7	8720.2	12233.2	18578.1	26309.7	32218.8	30835.8	33081.0	33358.3	25311.6
70°	4548.8	4586.5	5667.6	8444.8	14063.3	22817.5	30469.8	29205.7	30352.8	29601.9	21219.4
72.5°	1973.5	1960.3	2720.6	4296.0	7961.8	15310.4	24647.5	24098.5	23809.9	22096.7	14853.8
75°	1098.0	1113.1	1413.1	1994.2	3235.6	7520.3	16123.5	15429.2	13027.5	11116.3	6735.4
77.5°	881.1	901.8	1171.6	1415.0	1452.7	2622.5	7544.8	6139.2	3696.0	2965.9	1871.6
80°	696.2	733.9	1022.6	1101.8	979.2	1081.1	2437.6	1948.9	1462.2	1341.4	969.8
82.5°	550.9	577.3	877.3	833.9	684.9	728.3	1167.9	1137.7	950.9	866.0	560.3
85°	396.2	445.3	720.7	628.3	449.0	490.5	775.4	743.4	545.2	445.3	247.2
87.5°	162.3	211.3	509.4	417.0	250.9	228.3	386.8	364.1	258.5	188.7	122.6
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°	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2	5690.2
2.5°	5684.6	5729.8	5788.3	5824.2	5843.0	5856.2	5877.0	5875.1	5880.8	5882.7	5890.2
5°	5722.3	5797.8	5882.7	5905.3	5905.3	5884.5	5863.8	5829.8	5816.6	5812.8	5816.6
7.5°	5820.4	5903.4	5977.0	5950.6	5894.0	5811.0	5703.4	5609.1	5558.1	5541.2	5537.4
10°	5944.9	6044.9	6075.1	5975.1	5809.1	5609.1	5395.9	5241.2	5152.5	5128.0	5120.4
12.5°	6095.9	6190.2	6148.7	5937.4	5629.8	5307.2	5012.9	4765.7	4580.8	4522.4	4518.6
15°	6261.9	6335.5	6190.2	5820.4	5361.9	4886.5	4362.0	3935.6	3705.4	3631.9	3626.2
17.5°	6416.6	6454.3	6165.7	5616.6	4967.6	4197.9	3501.7	3173.4	3094.1	3113.0	3116.8
20°	6548.7	6548.7	6082.6	5324.2	4346.9	3290.4	2850.8	2845.1	2901.7	2958.3	2969.6
22.5°	6693.9	6607.1	5937.4	4911.0	3467.7	2692.3	2628.1	2681.0	2745.1	2807.4	2816.8
25°	6873.2	6654.3	5735.5	4284.6	2726.2	2445.1	2469.7	2513.1	2545.1	2584.7	2590.4
27.5°	7073.1	6714.7	5469.5	3422.4	2365.9	2290.4	2309.3	2324.4	2320.6	2335.7	2339.5
30°	7312.8	6784.5	5105.3	2675.3	2216.8	2158.4	2124.4	2111.2	2111.2	2135.7	2145.2
32.5°	7633.5	6888.3	4582.7	2292.3	2145.2	2064.0	1954.6	1905.5	1924.4	2007.4	2026.3
35°	7986.3	6999.6	3875.2	2162.1	2130.1	2020.6	1850.8	1760.3	1762.2	1839.5	1864.0
37.5°	8371.2	7141.1	3099.8	2137.6	2164.0	2022.5	1796.1	1671.6	1620.7	1620.7	1630.1
40°	8863.6	7286.3	2509.3	2154.6	2235.7	2045.2	1767.8	1601.8	1458.4	1462.2	1469.7
42.5°	9505.1	7410.9	2192.3	2190.4	2322.5	2075.3	1765.9	1509.3	1384.8	1469.7	1547.1
45°	10218.2	7473.1	2052.7	2222.5	2392.3	2094.2	1735.7	1494.2	1394.3	1647.1	1794.2
47.5°	11038.9	7437.3	1975.3	2233.8	2409.3	2094.2	1701.8	1530.1	1460.3	1907.4	2079.1
50°	11938.9	7333.5	1899.9	2211.2	2403.6	2090.4	1733.9	1565.9	1484.8	1952.7	2071.6
52.5°	12997.3	7246.7	1820.6	2162.1	2364.0	2069.7	1771.6	1550.8	1407.5	1775.4	1858.4
55°	14204.8	7271.2	1732.0	2092.3	2301.7	2030.1	1758.4	1490.5	1326.3	1564.1	1615.0
57.5°	15748.1	7563.7	1626.3	2003.6	2216.8	1964.0	1711.2	1462.2	1301.8	1418.8	1449.0
60°	17470.6	8073.1	1494.2	1915.0	2111.2	1858.4	1675.4	1475.4	1313.1	1407.5	1422.6
62.5°	18734.7	8369.3	1381.0	1784.8	1967.8	1741.4	1630.1	1492.4	1343.3	1447.1	1443.3
65°	19078.1	7882.5	1239.5	1594.2	1773.5	1618.8	1573.5	1511.2	1356.5	1479.2	1462.2
66°	18597.0	7358.0	1177.3	1505.6	1675.4	1558.4	1545.2	1509.3	1350.9	1482.9	1454.6
67.5°	17429.1	6282.6	1069.7	1375.4	1518.8	1467.8	1499.9	1492.4	1335.8	1479.2	1439.5
70°	14214.2	4286.5	915.0	1145.2	1264.1	1292.4	1413.1	1432.0	1286.7	1413.1	1326.3
72.5°	9931.5	2611.2	809.4	888.6	1022.6	1101.8	1294.3	1349.0	1220.7	1233.9	1150.9
75°	4799.7	1386.7	733.9	688.6	794.3	920.7	1150.9	1235.8	1116.9	1032.0	1001.8
77.5°	1496.1	847.1	622.6	554.7	622.6	743.4	962.2	1083.0	994.3	864.1	852.8
80°	803.7	622.6	479.2	445.3	492.4	583.0	756.6	903.7	854.7	775.4	692.4
82.5°	530.2	403.7	354.7	345.3	375.4	445.3	562.2	749.0	749.0	664.1	483.0
85°	273.6	247.2	243.4	243.4	262.2	296.2	383.0	577.3	615.1	350.9	290.5
87.5°	135.8	141.5	132.1	137.7	147.2	145.3	183.0	290.5	347.1	213.2	177.3
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)