

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: P193244

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193244
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 38618.8 lumens
Efficiency: N/A
Efficacy: 101.1 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



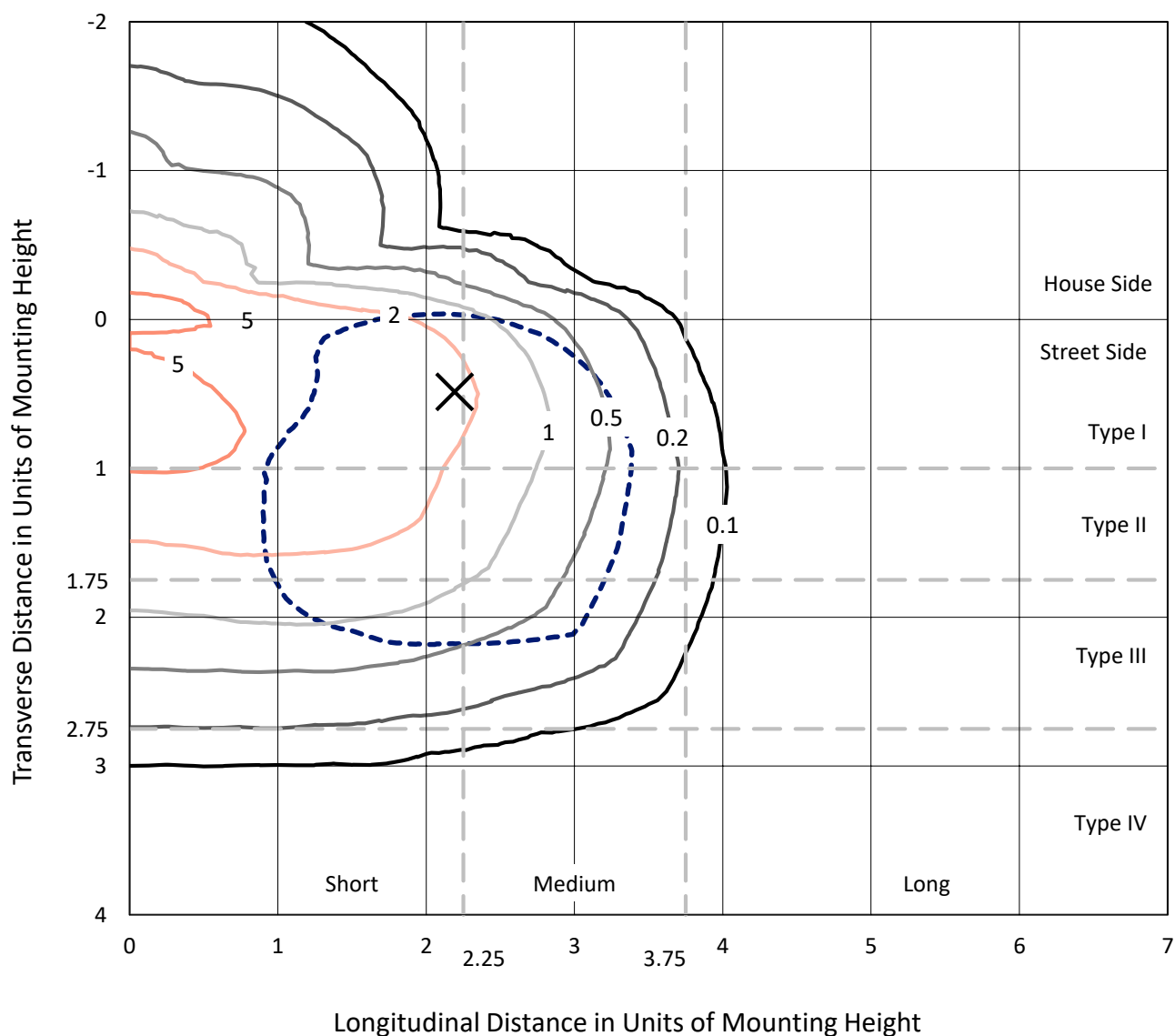
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

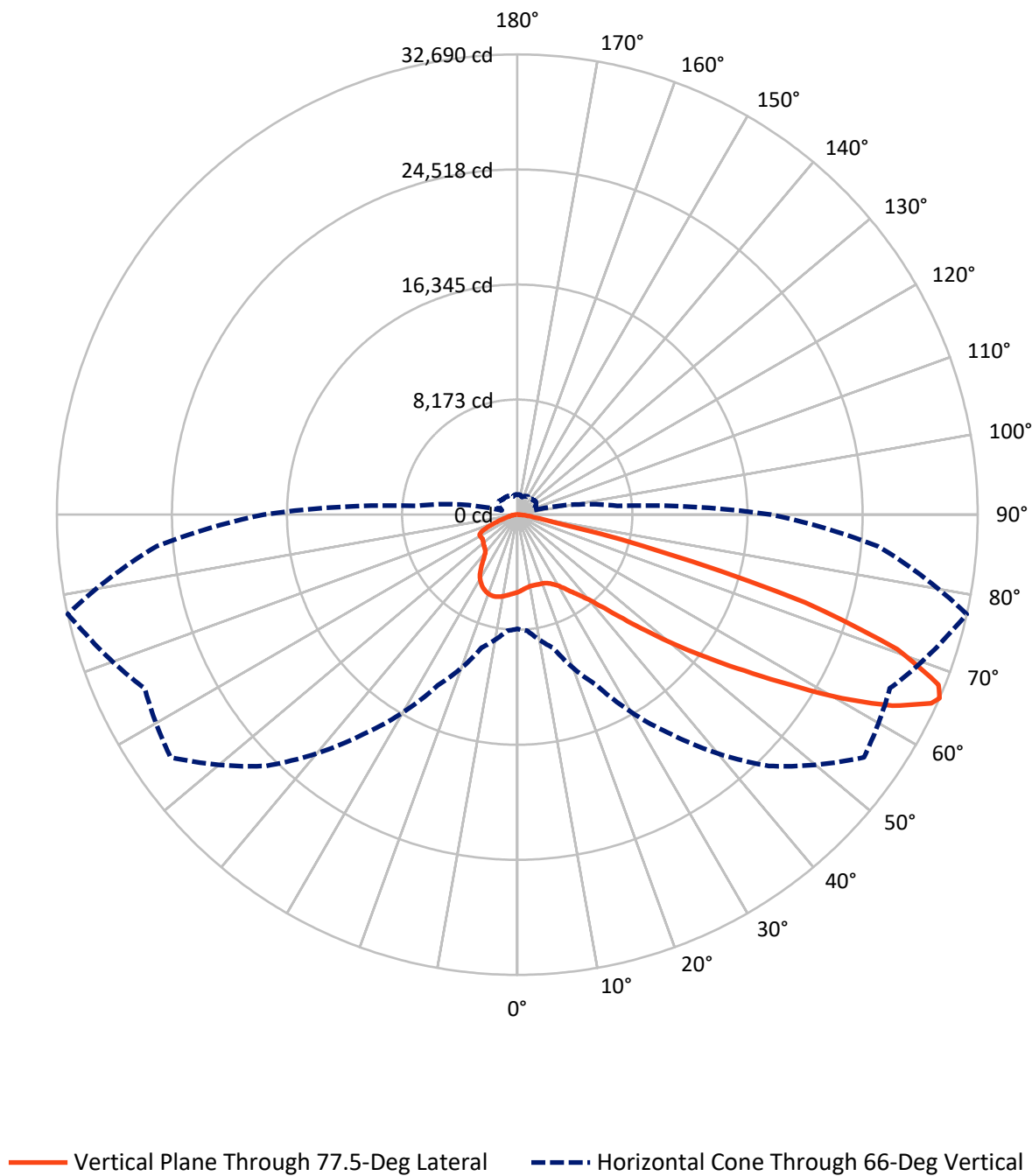


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6597.8	0.0	6597.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	32021.0	0.0	32021.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	38618.8	0.0	38618.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	1.3
10°-20°	1387.1	3.6
20°-30°	2367.3	6.1
30°-40°	3789.7	9.8
40°-50°	5854.7	15.2
50°-60°	8303.9	21.5
60°-70°	11108.4	28.8
70°-80°	4824.2	12.5
80°-90°	491.9	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°	38618.8	100.0
0°-180°	38618.8	100.0

Coefficient of Utilization



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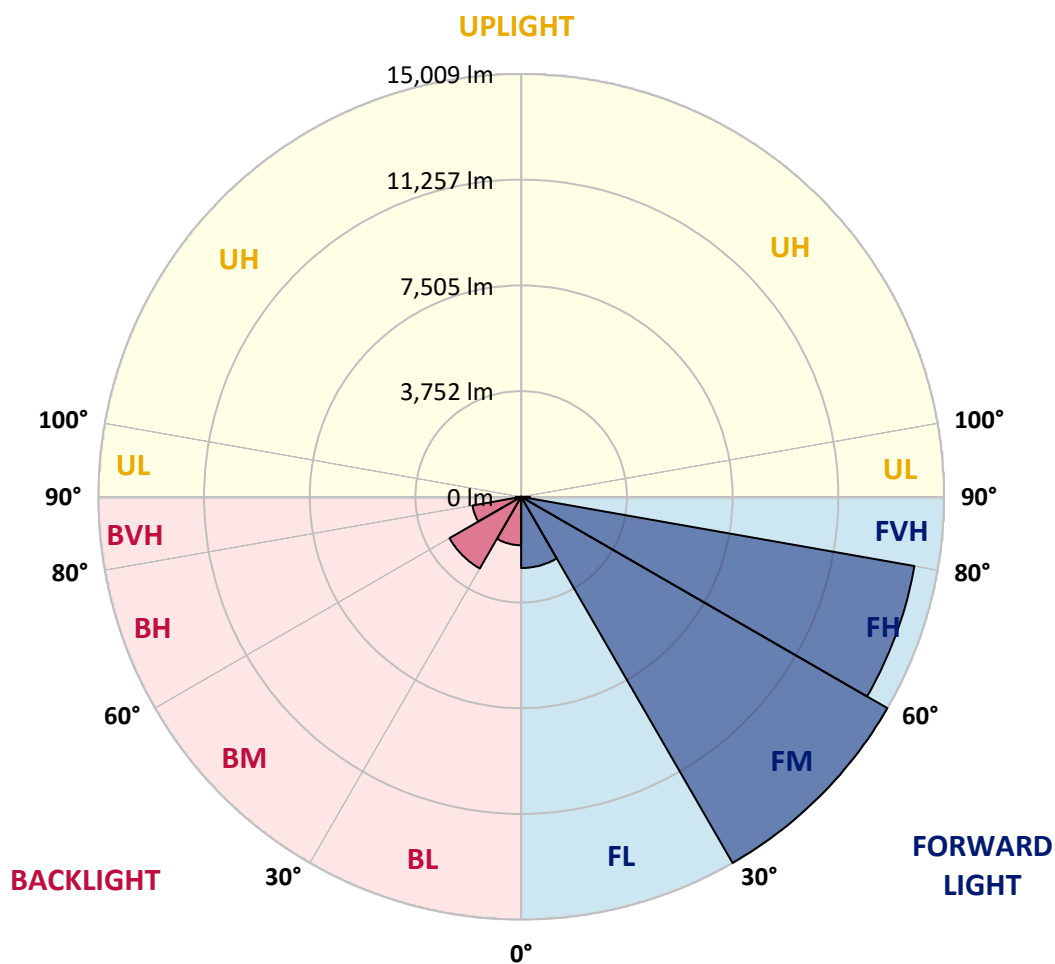
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2527.8	6.5			
FM	(30°-60°)	15009.3	38.9			
FH	(60°-80°)	14175.4	36.7			G5
FVH	(80°-90°)	308.5	0.8			G3/500
BL	(0°-30°)	1718.3	4.4	B3/2500		
BM	(30°-60°)	2938.9	7.6	B3/5000		
BH	(60°-80°)	1757.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	183.4	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°	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4
2.5°	4868.4	4901.2	4928.5	4954.2	5005.1	5089.2	5185.9	5264.3	5377.4	5399.4	5459.5
5°	4421.2	4421.2	4443.2	4481.5	4550.8	4676.8	4808.2	4983.4	5229.7	5288.0	5448.6
7.5°	4204.2	4205.9	4218.7	4251.6	4311.8	4426.7	4571.0	4777.2	5111.0	5207.8	5481.4
10°	4284.5	4266.2	4238.8	4222.5	4231.5	4299.1	4435.9	4665.8	5038.1	5162.2	5554.4
12.5°	4733.3	4698.7	4603.7	4477.9	4357.5	4308.2	4388.5	4612.9	5007.1	5151.1	5651.1
15°	5466.9	5452.2	5275.2	5014.4	4722.4	4477.9	4423.2	4592.8	5010.7	5163.9	5766.1
17.5°	6386.5	6366.4	6132.9	5753.4	5277.1	4800.9	4545.4	4609.2	5023.4	5185.9	5877.4
20°	7315.4	7253.2	7001.5	6548.9	5937.7	5240.6	4748.0	4651.1	5039.9	5209.6	5994.2
22.5°	8008.7	7957.6	7731.3	7291.6	6587.2	5749.7	5019.8	4724.2	5092.8	5279.0	6138.4
25°	8618.2	8621.7	8397.3	7972.2	7244.1	6289.8	5370.2	4919.4	5227.8	5421.2	6335.4
27.5°	9371.8	9328.0	9118.1	8696.6	7893.8	6835.4	5793.5	5187.6	5428.5	5623.8	6594.6
30°	10273.2	10242.2	9999.5	9521.4	8614.5	7421.1	6277.1	5499.7	5687.7	5890.1	6933.9
32.5°	11333.4	11318.7	11067.0	10452.0	9446.5	8110.9	6844.5	5912.1	6074.5	6284.4	7421.1
35°	12577.8	12579.7	12282.2	11543.2	10357.1	8913.8	7488.6	6443.1	6545.2	6764.2	8001.4
37.5°	13344.2	13437.2	13326.0	12572.4	11388.1	9811.5	8324.4	7147.4	7081.7	7302.6	8623.7
40°	13508.4	13621.6	13973.7	13590.5	12541.4	10800.5	9065.2	7824.4	7742.3	8012.3	9424.7
42.5°	13278.5	13435.4	14179.8	14450.0	13765.7	12019.4	10061.4	8829.8	8725.8	9088.9	10420.9
45°	13141.6	13258.4	14119.7	14897.1	14827.7	13397.2	11329.7	10092.5	10054.2	10530.5	11570.5
47.5°	12904.4	13010.3	13838.7	15001.1	15451.8	14659.9	12853.4	11636.2	11711.1	12335.2	12867.9
50°	13032.1	13075.9	13524.8	14736.5	15632.4	15585.0	14555.8	13424.4	13680.0	14459.1	14336.8
52.5°	13013.9	13127.1	13488.4	14302.1	15656.1	16156.0	16232.7	15418.8	15957.2	16851.3	15966.3
55°	10521.3	10729.4	13059.5	14192.7	15740.0	16716.2	17725.3	17521.0	18524.6	19566.4	17805.7
57.5°	10046.9	10178.3	11470.1	14422.6	16185.2	17785.5	19385.9	19834.7	21513.4	22723.3	20046.4
60°	9953.8	10116.2	11453.7	14703.6	17088.4	19528.1	21847.4	22635.7	25150.2	26474.8	22644.7
62.5°	9663.8	9838.9	11346.1	14667.1	18371.3	21938.6	24998.6	25613.6	28598.8	29887.1	24818.0
65°	8744.0	8908.2	10468.4	14077.7	19236.1	24511.4	28728.4	28343.4	31321.4	32290.3	25901.9
66°	8114.5	8275.1	9776.8	13384.4	19035.4	25241.4	30049.5	29188.3	31930.8	32690.0	25690.2
67.5°	6963.1	7089.1	8433.8	11831.4	17968.0	25445.7	31160.7	29823.3	31994.7	32262.9	24480.4
70°	4399.5	4435.9	5481.4	8167.4	13601.4	22068.1	29469.3	28246.7	29356.1	28629.9	20522.6
72.5°	1908.6	1895.8	2631.3	4154.9	7700.4	14807.6	23838.1	23307.1	23028.0	21371.1	14366.1
75°	1062.0	1076.5	1366.8	1928.8	3129.4	7273.4	15594.0	14922.5	12599.7	10751.2	6514.2
77.5°	852.1	872.2	1133.1	1368.6	1405.1	2536.4	7297.1	5937.7	3574.6	2868.5	1810.1
80°	673.4	709.8	989.1	1065.6	947.1	1045.6	2357.5	1884.9	1414.2	1297.4	937.9
82.5°	532.8	558.4	848.5	806.6	662.3	704.4	1129.5	1100.4	919.6	837.6	541.9
85°	383.2	430.6	697.1	607.6	434.3	474.4	749.9	718.9	527.4	430.6	239.1
87.5°	156.9	204.4	492.6	403.2	242.7	220.8	374.1	352.2	249.9	182.5	118.6
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°	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4
2.5°	5497.9	5541.6	5598.2	5632.9	5651.1	5663.9	5684.0	5682.1	5687.7	5689.4	5696.8
5°	5534.4	5607.4	5689.4	5711.4	5711.4	5691.4	5671.2	5638.5	5625.6	5621.9	5625.6
7.5°	5629.2	5709.6	5780.7	5755.1	5700.4	5620.2	5516.2	5424.9	5375.7	5359.1	5355.6
10°	5749.7	5846.4	5875.6	5778.9	5618.3	5424.9	5218.7	5069.1	4983.4	4959.6	4952.2
12.5°	5895.6	5986.9	5946.8	5742.4	5444.9	5132.9	4848.3	4609.2	4430.5	4373.8	4370.3
15°	6056.2	6127.4	5986.9	5629.2	5185.9	4726.0	4218.7	3806.4	3583.7	3512.5	3507.1
17.5°	6205.9	6242.4	5963.2	5432.2	4804.4	4060.0	3386.7	3069.2	2992.5	3010.7	3014.5
20°	6333.6	6333.6	5882.9	5149.4	4204.2	3182.2	2757.1	2751.7	2806.5	2861.2	2872.1
22.5°	6474.1	6390.1	5742.4	4749.7	3353.8	2603.8	2541.8	2592.9	2655.0	2715.2	2724.3
25°	6647.5	6435.8	5547.2	4143.9	2636.8	2364.8	2388.5	2430.6	2461.5	2499.9	2505.4
27.5°	6840.8	6494.2	5289.9	3310.0	2288.2	2215.2	2233.5	2248.0	2244.4	2259.1	2262.6
30°	7072.6	6561.7	4937.7	2587.5	2144.0	2087.5	2054.6	2041.8	2041.8	2065.5	2074.8
32.5°	7382.8	6662.1	4432.2	2217.1	2074.8	1996.2	1890.4	1842.9	1861.2	1941.5	1959.8
35°	7724.1	6769.7	3748.0	2091.1	2060.1	1954.3	1790.1	1702.5	1704.3	1779.1	1802.8
37.5°	8096.3	6906.6	2998.0	2067.4	2093.0	1956.1	1737.1	1616.7	1567.5	1567.5	1576.6
40°	8572.6	7047.1	2426.8	2083.8	2162.2	1978.0	1709.8	1549.2	1410.5	1414.2	1421.5
42.5°	9193.0	7167.5	2120.2	2118.5	2246.3	2007.2	1707.9	1459.8	1339.3	1421.5	1496.3
45°	9882.7	7227.7	1985.4	2149.5	2313.8	2025.4	1678.8	1445.2	1348.5	1593.0	1735.2
47.5°	10676.5	7193.1	1910.5	2160.5	2330.2	2025.4	1645.9	1479.8	1412.2	1844.9	2010.8
50°	11546.8	7092.7	1837.5	2138.5	2324.7	2021.9	1676.9	1514.6	1436.1	1888.5	2003.6
52.5°	12570.5	7008.8	1760.8	2091.1	2286.4	2001.7	1713.4	1499.9	1361.3	1717.0	1797.4
55°	13738.4	7032.5	1675.1	2023.6	2226.1	1963.4	1700.6	1441.5	1282.8	1512.7	1562.0
57.5°	15231.0	7315.4	1572.9	1937.8	2144.0	1899.6	1655.1	1414.2	1259.1	1372.2	1401.4
60°	16897.0	7808.0	1445.2	1852.1	2041.8	1797.4	1620.4	1426.9	1270.0	1361.3	1375.8
62.5°	18119.4	8094.5	1335.7	1726.2	1903.2	1684.2	1576.6	1443.4	1299.2	1399.6	1395.9
65°	18451.6	7623.7	1198.8	1541.8	1715.3	1565.5	1521.8	1461.6	1311.9	1430.5	1414.2
66°	17986.3	7116.4	1138.6	1456.1	1620.4	1507.2	1494.4	1459.8	1306.5	1434.2	1406.8
67.5°	16856.7	6076.4	1034.5	1330.2	1468.9	1419.6	1450.6	1443.4	1291.9	1430.5	1392.3
70°	13747.4	4145.8	885.0	1107.6	1222.6	1249.9	1366.8	1385.0	1244.5	1366.8	1282.8
72.5°	9605.3	2525.4	782.9	859.5	989.1	1065.6	1251.8	1304.7	1180.5	1193.3	1113.2
75°	4642.1	1341.1	709.8	666.1	768.2	890.5	1113.2	1195.2	1080.2	998.1	968.9
77.5°	1447.0	819.3	602.1	536.5	602.1	718.9	930.6	1047.4	961.6	835.8	824.8
80°	777.4	602.1	463.5	430.6	476.3	563.9	731.7	874.1	826.5	749.9	669.6
82.5°	512.8	390.5	343.1	333.9	363.1	430.6	543.8	724.4	724.4	642.3	467.1
85°	264.6	239.1	235.4	235.4	253.6	286.5	370.4	558.4	594.8	339.4	281.1
87.5°	131.3	136.9	127.8	133.2	142.4	140.5	177.0	281.1	335.8	206.2	171.5
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)