

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: P269500

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39378 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G5

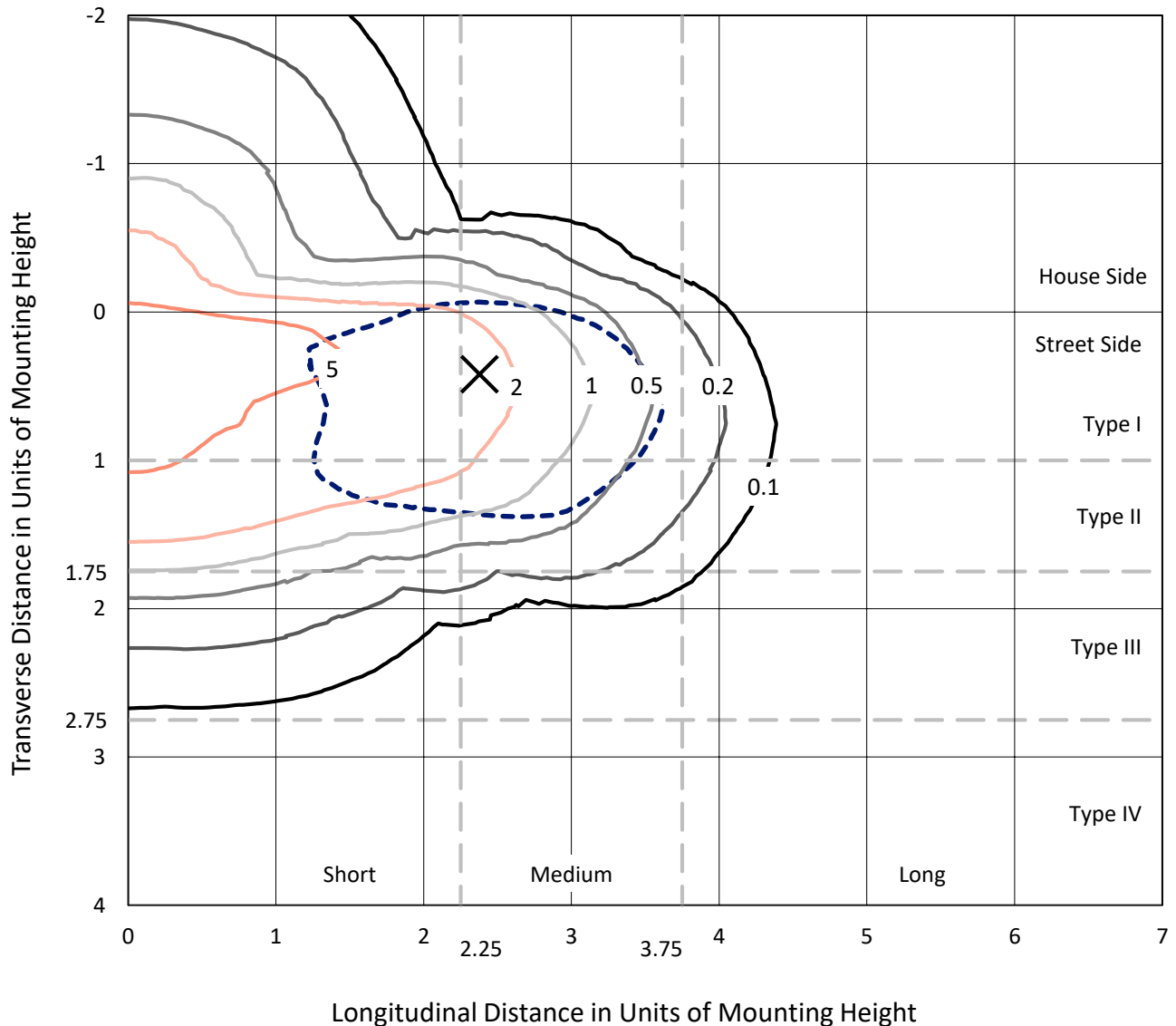
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269500
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

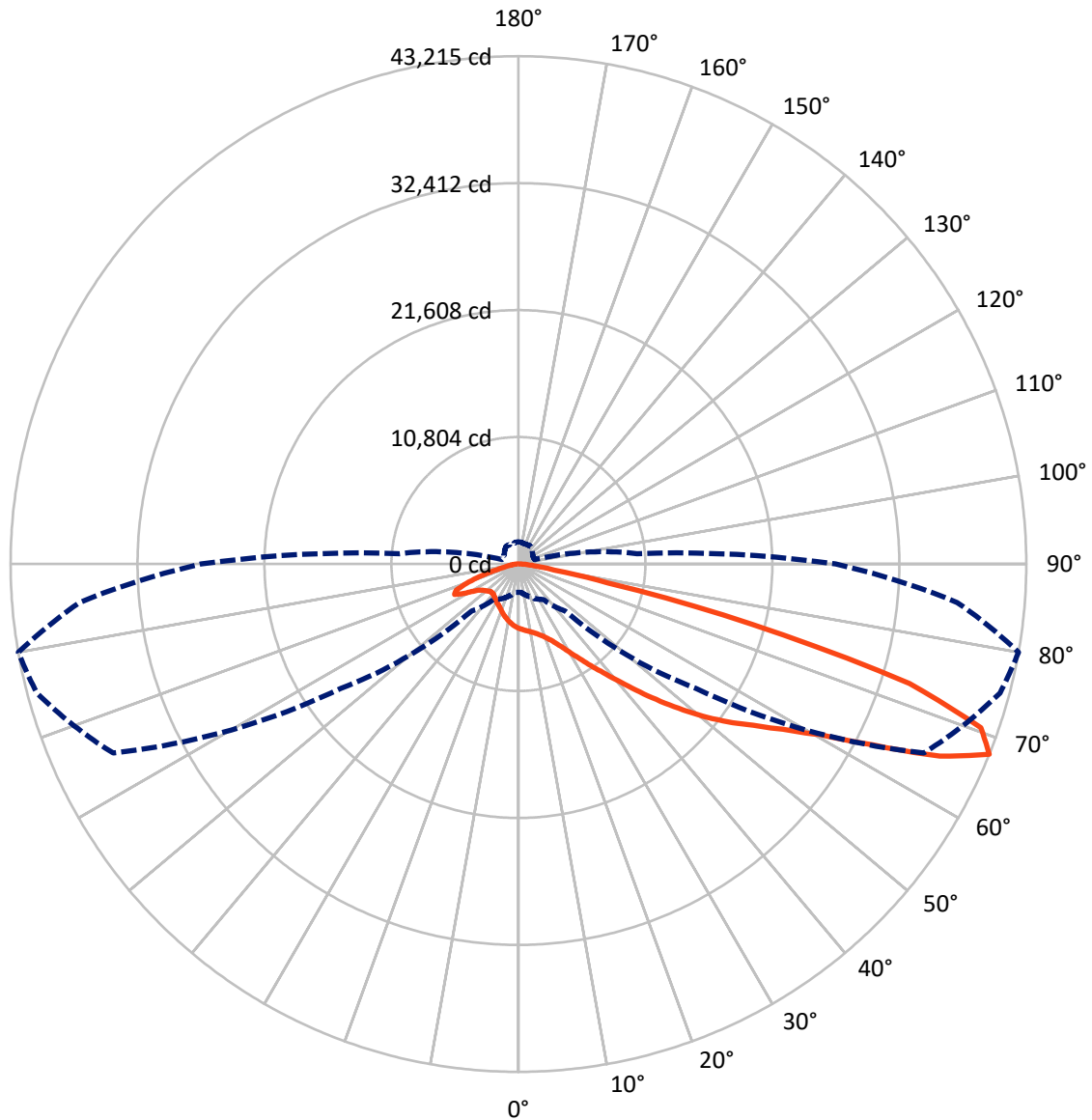
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7251.9	0.0	7251.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	32126.1	0.0	32126.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	39378.0	0.0	39378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	1.3
10°-20°	1453.8	3.7
20°-30°	2406.3	6.1
30°-40°	3936.1	10.0
40°-50°	6355.2	16.1
50°-60°	9175.0	23.3
60°-70°	10125.2	25.7
70°-80°	4667.1	11.9
80°-90°	754.9	1.9
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°	39378.0	100.0
0°-180°	39378.0	100.0



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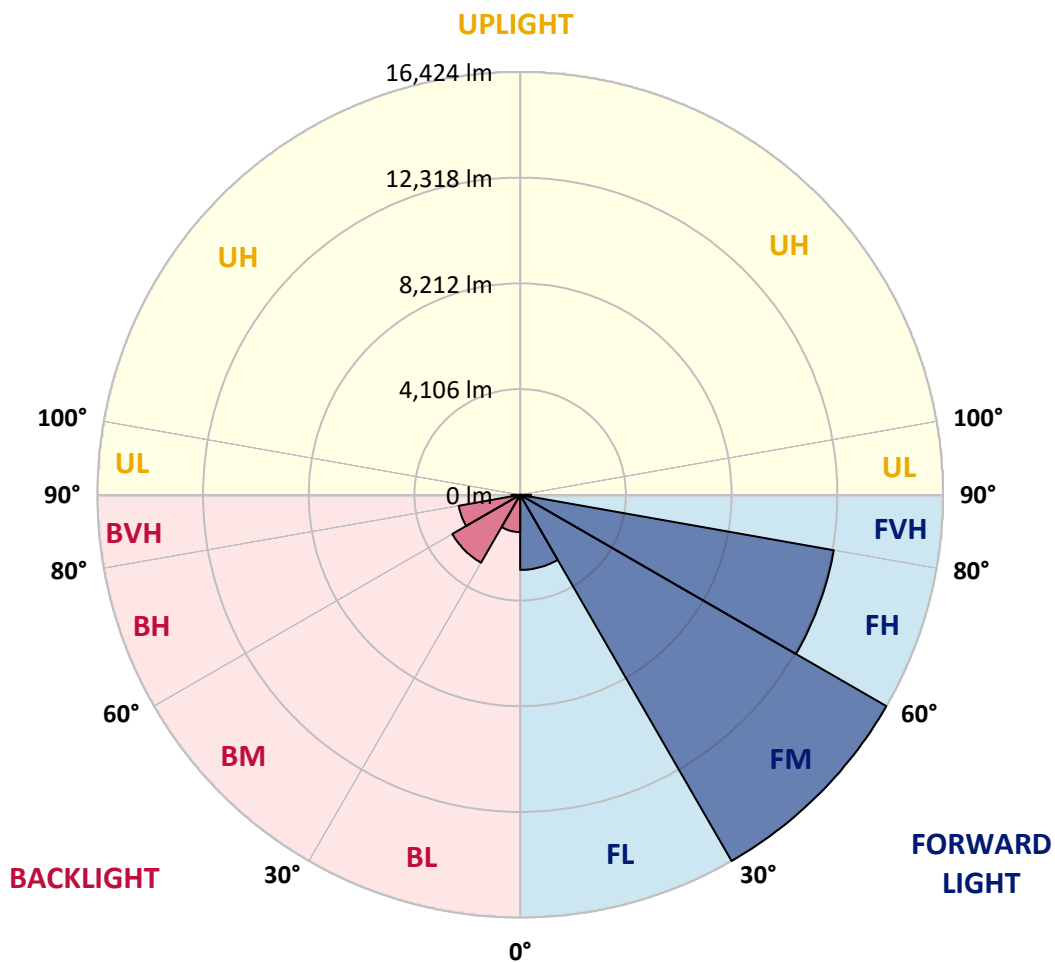
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2917.8	7.4			
FM (30°-60°)	16423.6	41.7			
FH (60°-80°)	12369.7	31.4			G5
FVH (80°-90°)	415.0	1.1			G3/500
BL (0°-30°)	1446.9	3.7	B3/2500		
BM (30°-60°)	3042.6	7.7	B3/5000		
BH (60°-80°)	2422.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	339.8	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8
2.5°	5984.5	5949.6	5955.5	5945.7	5916.6	5866.2	5811.9	5713.1	5610.4	5556.0	5513.3
5°	6484.7	6475.0	6461.4	6430.3	6356.6	6252.1	6122.0	5947.7	5759.7	5660.7	5565.8
7.5°	6858.7	6853.0	6835.6	6816.2	6744.5	6618.4	6422.6	6174.5	5901.1	5765.4	5618.1
10°	6889.8	6899.5	6913.0	6965.4	6975.1	6907.2	6707.6	6407.2	6048.5	5873.9	5685.9
12.5°	6626.2	6647.5	6699.7	6833.5	6975.1	7058.5	6955.8	6651.4	6221.0	6009.8	5771.3
15°	6277.3	6288.9	6352.9	6537.0	6790.9	7048.8	7145.7	6920.8	6443.9	6184.1	5899.2
17.5°	6128.0	6133.7	6178.4	6300.5	6537.0	6905.4	7252.3	7213.6	6717.3	6401.3	6056.3
20°	6052.3	6066.0	6129.9	6250.0	6399.3	6721.2	7267.8	7529.6	7042.9	6672.7	6253.9
22.5°	6267.6	6261.6	6285.0	6345.1	6471.1	6665.0	7256.1	7855.3	7457.8	7021.6	6511.8
25°	6769.5	6790.9	6750.3	6682.4	6723.1	6858.7	7318.2	8208.1	7977.4	7469.4	6849.0
27.5°	7484.9	7463.7	7403.6	7244.7	7161.2	7219.4	7523.8	8588.1	8622.9	8058.8	7295.0
30°	8198.4	8181.0	8122.7	7928.9	7758.3	7709.9	7923.1	9024.3	9392.6	8766.4	7841.7
32.5°	8938.9	8919.5	8865.3	8671.3	8465.8	8353.5	8491.0	9528.2	10299.8	9611.7	8485.3
35°	9852.0	9815.2	9700.7	9431.3	9229.7	9142.5	9206.5	10162.2	11346.8	10611.9	9266.6
37.5°	10710.9	10767.1	10650.8	10278.4	10016.8	9985.7	10057.6	10935.6	12474.9	11730.4	10164.1
40°	11573.6	11583.1	11478.5	11174.1	10904.6	10854.3	11034.6	11873.9	13806.8	13068.2	11255.6
42.5°	12465.2	12484.6	12308.2	12027.1	11829.4	11839.1	12044.6	12973.1	15334.3	14644.3	12511.8
45°	13521.7	13550.8	13357.0	12988.7	12808.5	13170.9	13085.6	14206.2	17009.3	16435.5	13954.1
47.5°	14626.8	14671.4	14524.1	14178.9	13954.1	14452.3	14126.7	15572.8	18812.2	18356.7	15538.0
50°	15229.8	15293.6	15437.2	15412.0	15363.4	15280.1	15287.8	17038.4	20671.3	20357.3	17166.4
52.5°	14905.9	14904.0	15427.4	16063.3	16741.8	16792.2	16703.1	18583.4	22408.4	22313.4	18699.7
55°	13424.9	13525.7	14318.5	15549.7	17402.9	18560.2	18824.0	20353.4	24114.3	24224.9	20256.5
57.5°	10959.0	11042.3	12112.4	13828.1	16511.1	19611.0	21840.3	22926.0	26021.9	26537.5	22328.9
60°	7432.7	7533.5	8667.6	10728.3	14111.1	19025.6	24711.5	27516.6	28305.7	29478.5	25236.9
62.5°	4367.6	4458.7	5383.5	6767.7	9935.3	16305.7	25971.5	34047.7	31932.8	33916.0	29672.4
65°	3006.7	3068.8	3518.7	4212.6	5709.2	10982.1	24409.0	38557.1	37513.9	39413.9	34815.5
67.5°	2419.3	2411.6	2768.3	3241.4	3675.7	5662.6	18457.5	38047.2	42422.5	43215.4	37485.0
70°	1992.9	1985.2	2227.4	2619.1	2937.0	3189.1	10053.7	32107.2	41422.3	41744.1	35026.8
72.5°	1667.3	1675.0	1830.0	2120.9	2409.8	2402.0	4418.0	22586.8	32586.0	34811.6	27921.7
75°	1407.5	1411.2	1514.1	1719.5	1956.1	1934.7	2396.0	12236.5	18942.1	20491.1	15477.8
77.5°	1198.1	1201.9	1267.9	1382.2	1550.8	1543.1	1748.6	5286.5	7901.9	7804.8	5294.3
80°	1068.2	1068.2	1099.2	1120.5	1213.6	1178.7	1297.0	2539.6	3340.2	3084.3	2113.2
82.5°	837.5	841.4	1031.3	1023.6	955.7	911.2	911.2	1496.5	1769.9	1636.3	1236.8
85°	471.2	469.2	664.9	802.5	841.4	641.7	635.9	837.5	963.5	849.1	599.0
87.5°	201.6	205.5	308.3	356.6	476.9	399.3	393.5	432.4	490.5	424.5	277.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269500

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8	5470.8
2.5°	5472.7	5422.3	5311.8	5174.1	5050.1	4968.6	4895.0	4788.3	4794.2	4720.6	4666.2
5°	5468.8	5364.0	5108.2	4803.9	4511.2	4299.8	4140.8	3997.4	3962.6	3894.6	3854.0
7.5°	5472.7	5302.1	4871.7	4385.2	4022.6	3755.1	3619.5	3543.8	3526.3	3503.1	3504.9
10°	5486.3	5245.9	4612.0	3993.5	3613.5	3437.2	3404.1	3427.5	3454.6	3462.3	3464.4
12.5°	5517.3	5195.4	4327.0	3644.6	3357.7	3303.3	3359.7	3439.2	3491.4	3516.7	3514.7
15°	5587.1	5156.7	4053.6	3371.2	3216.1	3245.2	3349.9	3462.3	3538.0	3572.9	3574.7
17.5°	5662.6	5100.4	3772.5	3161.9	3111.5	3185.1	3315.0	3446.8	3540.0	3578.7	3586.5
20°	5761.5	5030.7	3477.9	3004.8	3012.6	3096.0	3218.1	3349.9	3452.6	3485.7	3501.1
22.5°	5891.4	4955.1	3220.1	2876.9	2900.2	2964.1	3059.1	3173.5	3262.6	3278.2	3291.7
25°	6066.0	4873.7	3014.5	2760.6	2770.3	2807.2	2871.1	2939.0	3001.0	2983.5	2997.0
27.5°	6300.5	4803.9	2861.5	2654.0	2636.5	2644.3	2677.2	2698.6	2731.4	2683.1	2688.8
30°	6575.8	4728.3	2743.2	2560.9	2512.4	2498.8	2506.6	2518.3	2543.5	2477.5	2467.9
32.5°	6895.6	4637.1	2632.7	2479.5	2411.6	2384.6	2388.4	2419.3	2516.3	2475.5	2454.3
35°	7267.8	4534.5	2516.3	2390.3	2343.8	2305.1	2301.1	2398.0	2686.9	2661.7	2642.4
37.5°	7704.0	4431.7	2400.0	2289.5	2293.4	2250.8	2237.1	2347.6	2719.9	2621.1	2607.4
40°	8258.5	4377.4	2301.1	2182.9	2231.3	2225.6	2198.4	2254.6	2502.8	2322.5	2299.2
42.5°	8944.8	4385.2	2227.4	2068.4	2157.6	2219.7	2177.0	2179.0	2268.2	2132.4	2111.1
45°	9792.0	4476.3	2175.2	1977.3	2074.2	2214.0	2169.2	2138.2	2146.1	2074.2	2062.7
47.5°	10780.6	4664.3	2138.2	1901.8	1994.9	2192.6	2167.4	2126.6	2109.2	2070.5	2060.7
50°	11879.7	4937.7	2111.1	1830.0	1923.1	2157.6	2169.2	2115.0	2095.7	2080.1	2074.2
52.5°	12959.6	5249.8	2070.5	1768.0	1866.9	2115.0	2175.2	2103.4	2082.0	2070.5	2064.7
55°	14163.4	5639.4	2008.4	1715.7	1820.3	2060.7	2175.2	2086.0	2062.7	2064.7	2062.7
57.5°	15790.0	6269.5	1934.7	1671.0	1764.1	1994.9	2138.2	2066.6	2037.4	2039.4	2041.4
60°	18331.5	7380.3	1845.6	1626.6	1694.4	1917.3	2087.9	2023.9	1994.9	2002.6	2004.5
62.5°	22069.1	9010.7	1729.2	1560.5	1620.7	1833.9	2018.1	1969.7	1940.6	1959.9	1959.9
65°	25954.1	10449.2	1585.8	1477.3	1543.1	1742.8	1930.8	1901.8	1872.6	1917.3	1915.4
67.5°	26999.0	10127.3	1442.3	1386.2	1465.6	1642.0	1826.2	1810.7	1795.2	1872.6	1868.8
70°	23984.4	8130.5	1310.4	1293.0	1380.2	1533.4	1713.7	1713.7	1704.1	1762.1	1748.6
72.5°	18273.3	5765.4	1184.4	1194.1	1283.4	1415.2	1591.5	1605.2	1589.7	1618.7	1607.1
75°	9782.3	3299.6	1058.6	1085.6	1163.1	1294.9	1456.0	1469.4	1459.7	1457.8	1463.7
77.5°	3251.1	1612.9	926.6	969.4	1037.2	1170.9	1314.4	1335.7	1312.5	1308.7	1306.7
80°	1448.2	1013.8	781.3	837.5	897.5	1029.4	1165.1	1182.6	1157.3	1192.2	1147.7
82.5°	930.6	666.9	626.2	688.2	746.3	887.9	1015.9	1019.7	996.4	1157.3	986.8
85°	451.7	413.0	471.2	527.3	577.7	698.0	841.4	843.2	785.2	715.3	690.2
87.5°	224.8	240.3	314.0	364.4	389.7	478.8	612.6	601.0	575.8	523.4	482.7
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)