

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: P194013

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194013  
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-05-LED-E1-T3R-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16353 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

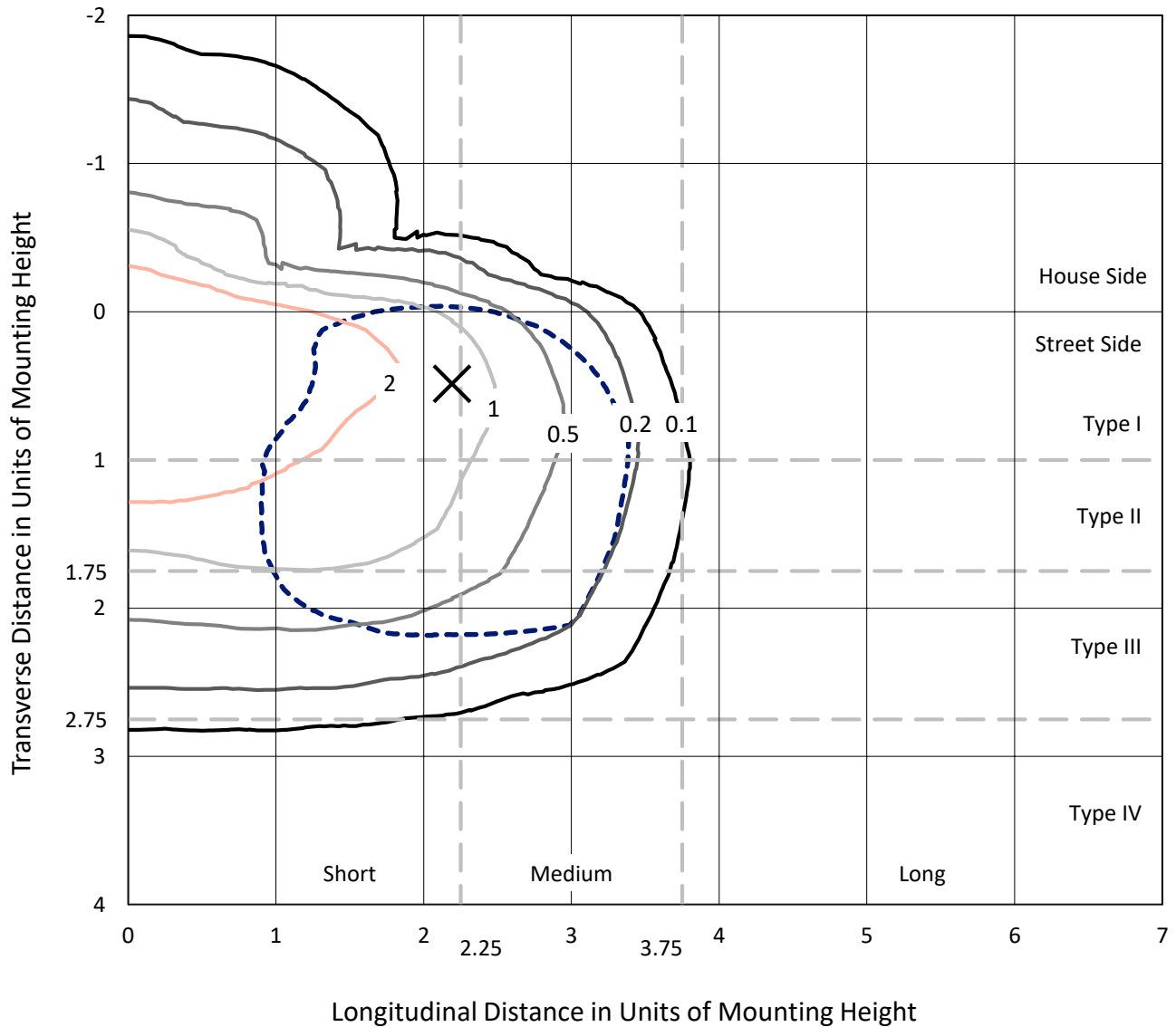


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

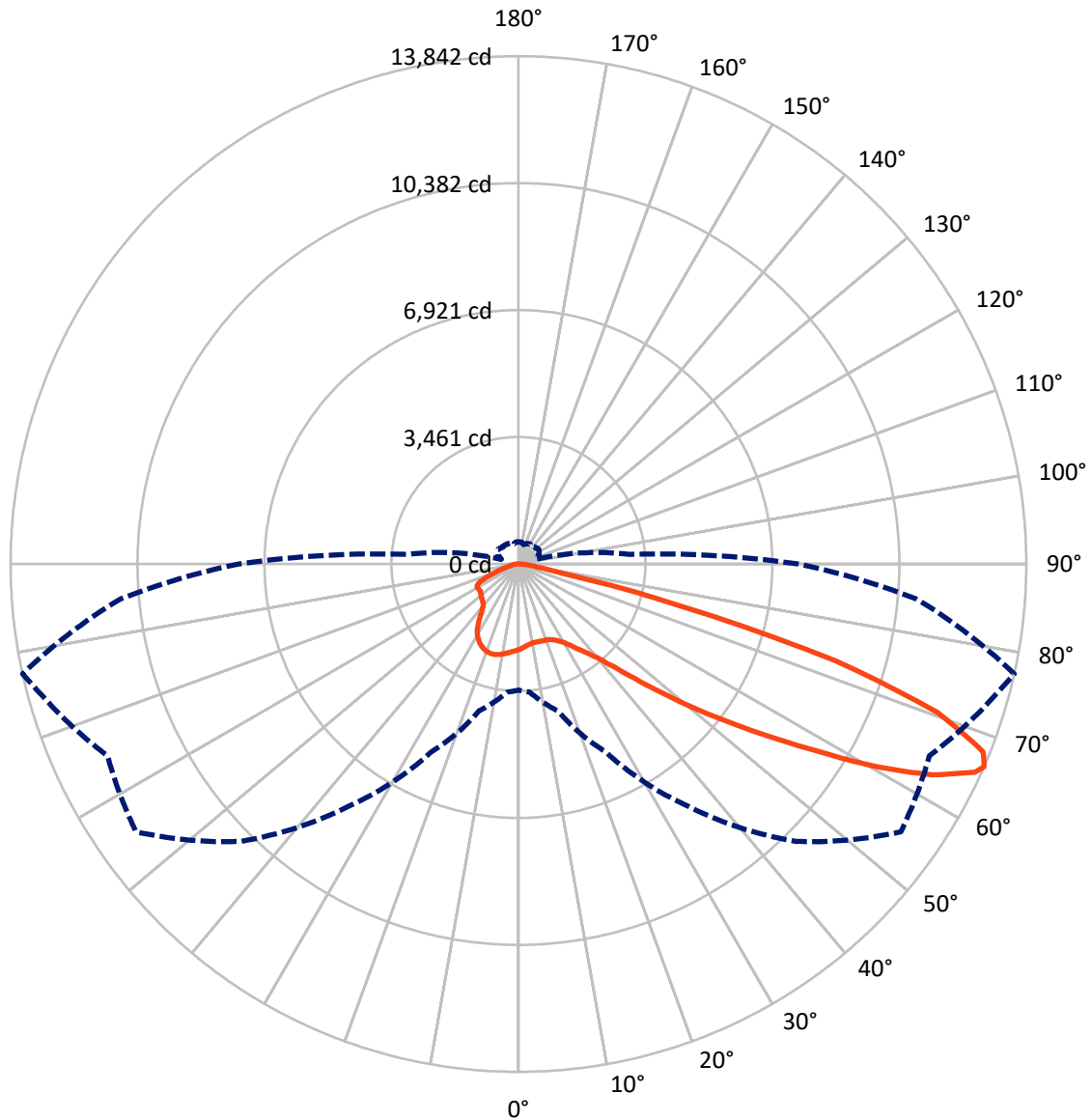


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2793.8	0.0	2793.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	13559.2	0.0	13559.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	16353.0	0.0	16353.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	1.3
10°-20°	587.4	3.6
20°-30°	1002.4	6.1
30°-40°	1604.7	9.8
40°-50°	2479.1	15.2
50°-60°	3516.3	21.5
60°-70°	4703.8	28.8
70°-80°	2042.8	12.5
80°-90°	208.3	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°	16353.0	100.0
0°-180°	16353.0	100.0



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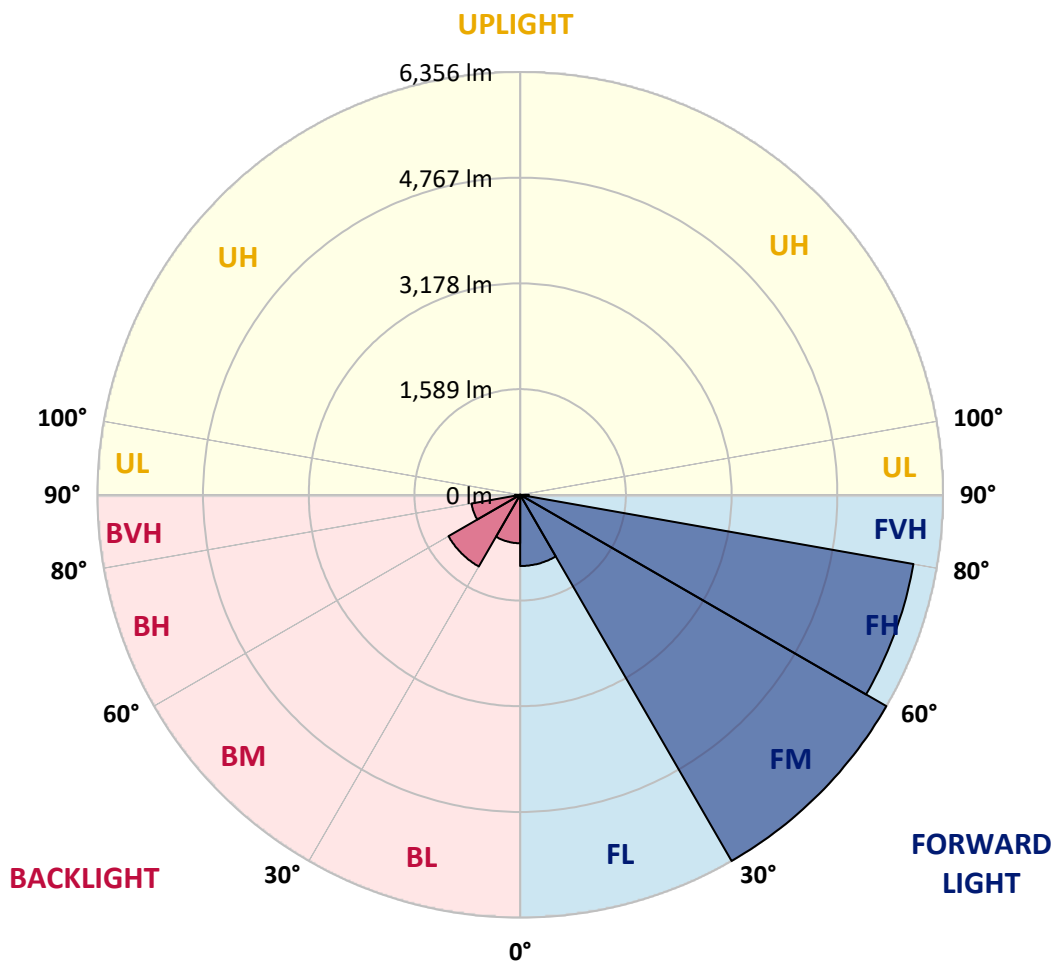
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.4	6.5			
FM	(30°-60°)	6355.6	38.9			
FH	(60°-80°)	6002.5	36.7			G3/7500
FVH	(80°-90°)	130.6	0.8			G2/225
BL	(0°-30°)	727.6	4.4	B2/1000		
BM	(30°-60°)	1244.5	7.6	B2/2500		
BH	(60°-80°)	744.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	77.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2061.5	2075.4	2087.0	2097.8	2119.4	2155.0	2195.9	2229.2	2277.1	2286.3	2311.8
5°	1872.2	1872.2	1881.5	1897.7	1927.0	1980.4	2036.0	2110.2	2214.5	2239.2	2307.2
7.5°	1780.2	1781.0	1786.4	1800.3	1825.8	1874.5	1935.5	2022.9	2164.3	2205.2	2321.1
10°	1814.2	1806.5	1794.9	1788.0	1791.8	1820.4	1878.4	1975.7	2133.3	2185.9	2352.0
12.5°	2004.3	1989.6	1949.5	1896.1	1845.1	1824.3	1858.3	1953.3	2120.2	2181.3	2393.0
15°	2314.9	2308.7	2233.8	2123.3	1999.7	1896.1	1873.0	1944.8	2121.8	2186.7	2441.6
17.5°	2704.4	2695.9	2597.0	2436.2	2234.6	2032.9	1924.7	1951.8	2127.2	2195.9	2488.8
20°	3097.6	3071.4	2964.7	2773.1	2514.3	2219.1	2010.5	1969.5	2134.1	2206.0	2538.2
22.5°	3391.3	3369.6	3273.8	3087.6	2789.3	2434.7	2125.6	2000.4	2156.5	2235.3	2599.3
25°	3649.3	3650.9	3555.8	3375.8	3067.5	2663.4	2274.0	2083.1	2213.7	2295.6	2682.7
27.5°	3968.4	3949.9	3861.0	3682.6	3342.6	2894.4	2453.2	2196.7	2298.7	2381.4	2792.4
30°	4350.1	4337.0	4234.2	4031.8	3647.8	3142.5	2658.0	2328.8	2408.4	2494.2	2936.2
32.5°	4799.1	4792.9	4686.3	4425.9	4000.1	3434.5	2898.3	2503.5	2572.2	2661.1	3142.5
35°	5326.0	5326.8	5200.9	4887.9	4385.7	3774.5	3171.0	2728.3	2771.6	2864.3	3388.2
37.5°	5650.6	5690.0	5642.8	5323.7	4822.2	4154.7	3524.9	3026.6	2998.7	3092.2	3651.7
40°	5720.1	5768.0	5917.1	5754.9	5310.6	4573.4	3838.6	3313.2	3278.4	3392.8	3990.9
42.5°	5622.7	5689.2	6004.4	6118.8	5829.0	5089.6	4260.5	3739.0	3694.9	3848.7	4412.7
45°	5564.8	5614.2	5978.9	6308.1	6278.7	5673.0	4797.5	4273.7	4257.4	4459.1	4899.5
47.5°	5464.3	5509.2	5859.9	6352.1	6543.0	6207.7	5442.7	4927.3	4959.0	5223.3	5448.9
50°	5518.4	5537.0	5727.0	6240.1	6619.5	6599.4	6163.6	5684.6	5792.7	6122.7	6070.9
52.5°	5510.7	5558.6	5711.6	6056.2	6629.5	6841.2	6873.7	6529.1	6757.0	7135.6	6760.9
55°	4455.2	4543.3	5530.0	6009.8	6665.1	7078.5	7505.7	7419.2	7844.2	8285.4	7539.7
57.5°	4254.3	4310.0	4857.0	6107.2	6853.6	7531.2	8208.9	8398.9	9109.8	9622.1	8488.6
60°	4214.9	4283.7	4850.1	6226.2	7236.1	8269.1	9251.2	9585.0	10649.7	11210.7	9588.9
62.5°	4092.1	4166.3	4804.5	6210.7	7779.3	9289.8	10585.6	10846.0	12110.1	12655.6	10509.1
65°	3702.6	3772.2	4432.8	5961.2	8145.5	10379.3	12165.0	12001.9	13262.9	13673.2	10968.1
66°	3436.1	3504.1	4140.0	5667.6	8060.5	10688.4	12724.4	12359.7	13521.0	13842.4	10878.5
67.5°	2948.5	3001.8	3571.3	5010.0	7608.5	10774.9	13194.9	12628.6	13548.0	13661.6	10366.2
70°	1862.9	1878.4	2321.1	3458.5	5759.5	9344.7	12478.7	11961.0	12430.8	12123.2	8690.2
72.5°	808.2	802.8	1114.2	1759.4	3260.7	6270.2	10094.2	9869.3	9751.1	9049.5	6083.3
75°	449.7	455.9	578.7	816.7	1325.1	3079.9	6603.3	6318.9	5335.3	4552.6	2758.4
77.5°	360.8	369.3	479.8	579.5	595.0	1074.0	3089.9	2514.3	1513.7	1214.6	766.5
80°	285.1	300.6	418.8	451.2	401.0	442.7	998.3	798.2	598.8	549.4	397.2
82.5°	225.6	236.4	359.3	341.5	280.5	298.3	478.3	465.9	389.4	354.7	229.5
85°	162.3	182.4	295.2	257.3	183.9	200.9	317.6	304.4	223.3	182.4	101.2
87.5°	66.4	86.5	208.6	170.8	102.8	93.5	158.4	149.1	105.9	77.3	50.2
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°	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2328.1	2346.6	2370.6	2385.2	2393.0	2398.4	2406.9	2406.1	2408.4	2409.2	2412.3
5°	2343.5	2374.4	2409.2	2418.5	2418.5	2410.0	2401.5	2387.6	2382.1	2380.6	2382.1
7.5°	2383.7	2417.7	2447.8	2437.0	2413.8	2379.8	2335.8	2297.2	2276.3	2269.3	2267.8
10°	2434.7	2475.6	2488.0	2447.1	2379.1	2297.2	2209.8	2146.5	2110.2	2100.1	2097.0
12.5°	2496.5	2535.1	2518.1	2431.6	2305.7	2173.5	2053.0	1951.8	1876.0	1852.1	1850.6
15°	2564.5	2594.6	2535.1	2383.7	2195.9	2001.2	1786.4	1611.8	1517.5	1487.4	1485.1
17.5°	2627.9	2643.3	2525.1	2300.2	2034.4	1719.2	1434.1	1299.6	1267.2	1274.9	1276.5
20°	2681.9	2681.9	2491.1	2180.5	1780.2	1347.5	1167.5	1165.2	1188.4	1211.6	1216.2
22.5°	2741.4	2705.9	2431.6	2011.3	1420.2	1102.6	1076.3	1098.0	1124.2	1149.7	1153.6
25°	2814.8	2725.2	2348.9	1754.7	1116.5	1001.4	1011.4	1029.2	1042.3	1058.6	1060.9
27.5°	2896.7	2749.9	2240.0	1401.6	968.9	938.0	945.8	951.9	950.4	956.6	958.1
30°	2994.9	2778.5	2090.9	1095.6	907.9	883.9	870.0	864.6	864.6	874.7	878.5
32.5°	3126.2	2821.0	1876.8	938.8	878.5	845.3	800.5	780.4	788.1	822.1	829.9
35°	3270.7	2866.6	1587.1	885.5	872.3	827.5	758.0	720.9	721.7	753.4	763.4
37.5°	3428.3	2924.6	1269.5	875.4	886.3	828.3	735.6	684.6	663.7	663.7	667.6
40°	3630.0	2984.1	1027.7	882.4	915.6	837.6	724.0	656.0	597.3	598.8	601.9
42.5°	3892.7	3035.1	897.8	897.1	951.2	849.9	723.2	618.1	567.1	601.9	633.6
45°	4184.8	3060.6	840.7	910.2	979.7	857.7	710.9	612.0	571.0	674.5	734.8
47.5°	4520.9	3045.9	809.0	914.8	986.7	857.7	697.0	626.6	598.0	781.2	851.5
50°	4889.5	3003.4	778.1	905.6	984.4	856.1	710.1	641.3	608.1	799.7	848.4
52.5°	5322.9	2967.8	745.6	885.5	968.2	847.6	725.5	635.1	576.4	727.1	761.1
55°	5817.5	2977.9	709.3	856.9	942.7	831.4	720.1	610.4	543.2	640.5	661.4
57.5°	6449.5	3097.6	666.0	820.6	907.9	804.4	700.8	598.8	533.1	581.0	593.4
60°	7154.9	3306.3	612.0	784.3	864.6	761.1	686.1	604.2	537.8	576.4	582.6
62.5°	7672.6	3427.6	565.6	730.9	805.9	713.2	667.6	611.2	550.1	592.6	591.1
65°	7813.3	3228.2	507.6	652.9	726.3	663.0	644.4	618.9	555.6	605.8	598.8
66°	7616.2	3013.4	482.1	616.6	686.1	638.2	632.8	618.1	553.2	607.3	595.7
67.5°	7137.9	2573.0	438.1	563.3	622.0	601.1	614.3	611.2	547.1	605.8	589.5
70°	5821.3	1755.5	374.7	469.0	517.7	529.3	578.7	586.5	527.0	578.7	543.2
72.5°	4067.3	1069.4	331.5	363.9	418.8	451.2	530.1	552.5	499.9	505.3	471.3
75°	1965.7	567.9	300.6	282.0	325.3	377.1	471.3	506.1	457.4	422.7	410.3
77.5°	612.7	346.9	255.0	227.2	255.0	304.4	394.1	443.5	407.2	353.9	349.2
80°	329.2	255.0	196.3	182.4	201.7	238.8	309.8	370.1	350.0	317.6	283.6
82.5°	217.1	165.4	145.3	141.4	153.8	182.4	230.3	306.8	306.8	272.0	197.8
85°	112.0	101.2	99.7	99.7	107.4	121.3	156.9	236.4	251.9	143.7	119.0
87.5°	55.6	58.0	54.1	56.4	60.3	59.5	74.9	119.0	142.2	87.3	72.6
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)