

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: P193983

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19617 lumens
Efficiency: N/A
Efficacy: 93.4 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 - G3

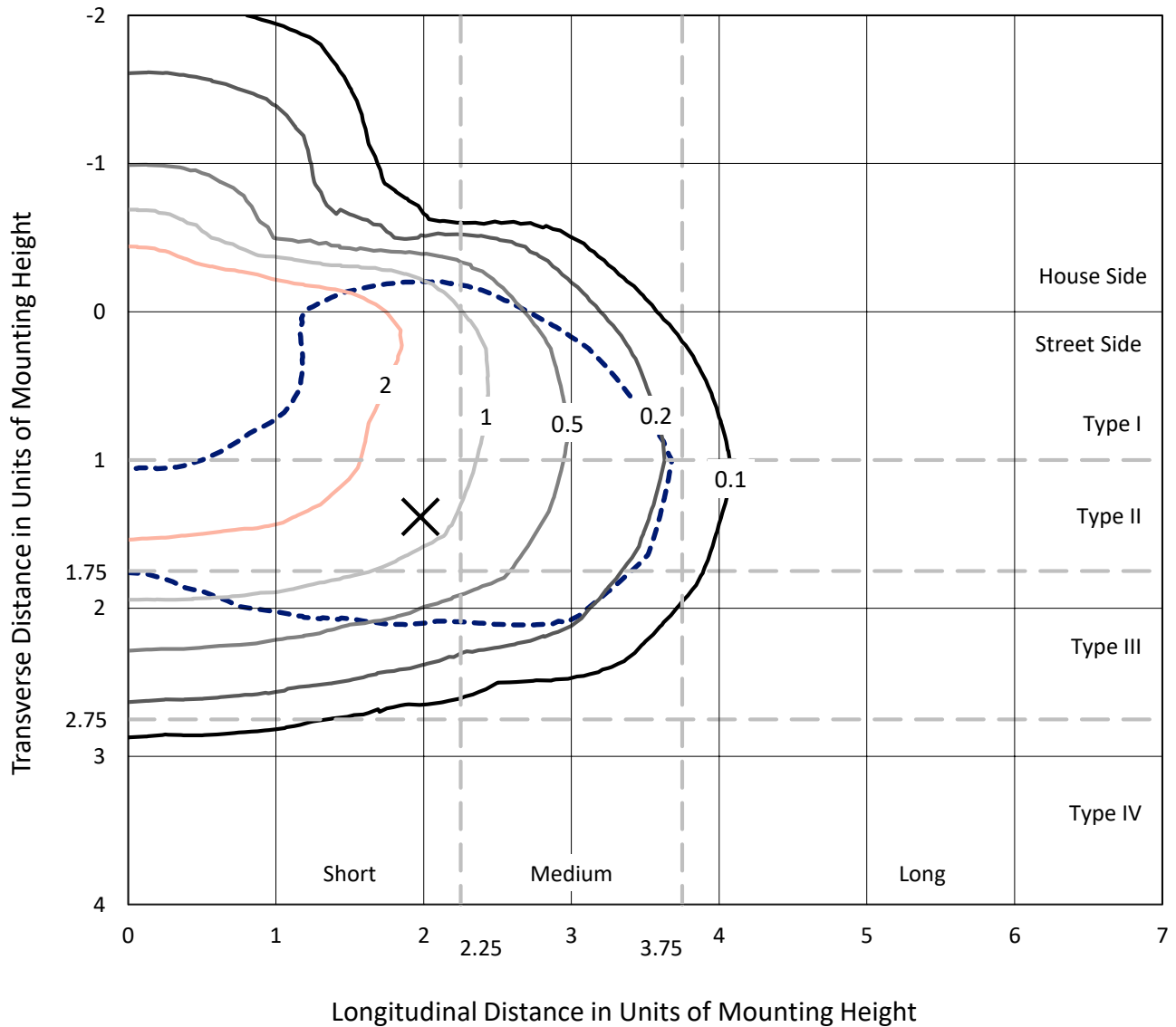
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

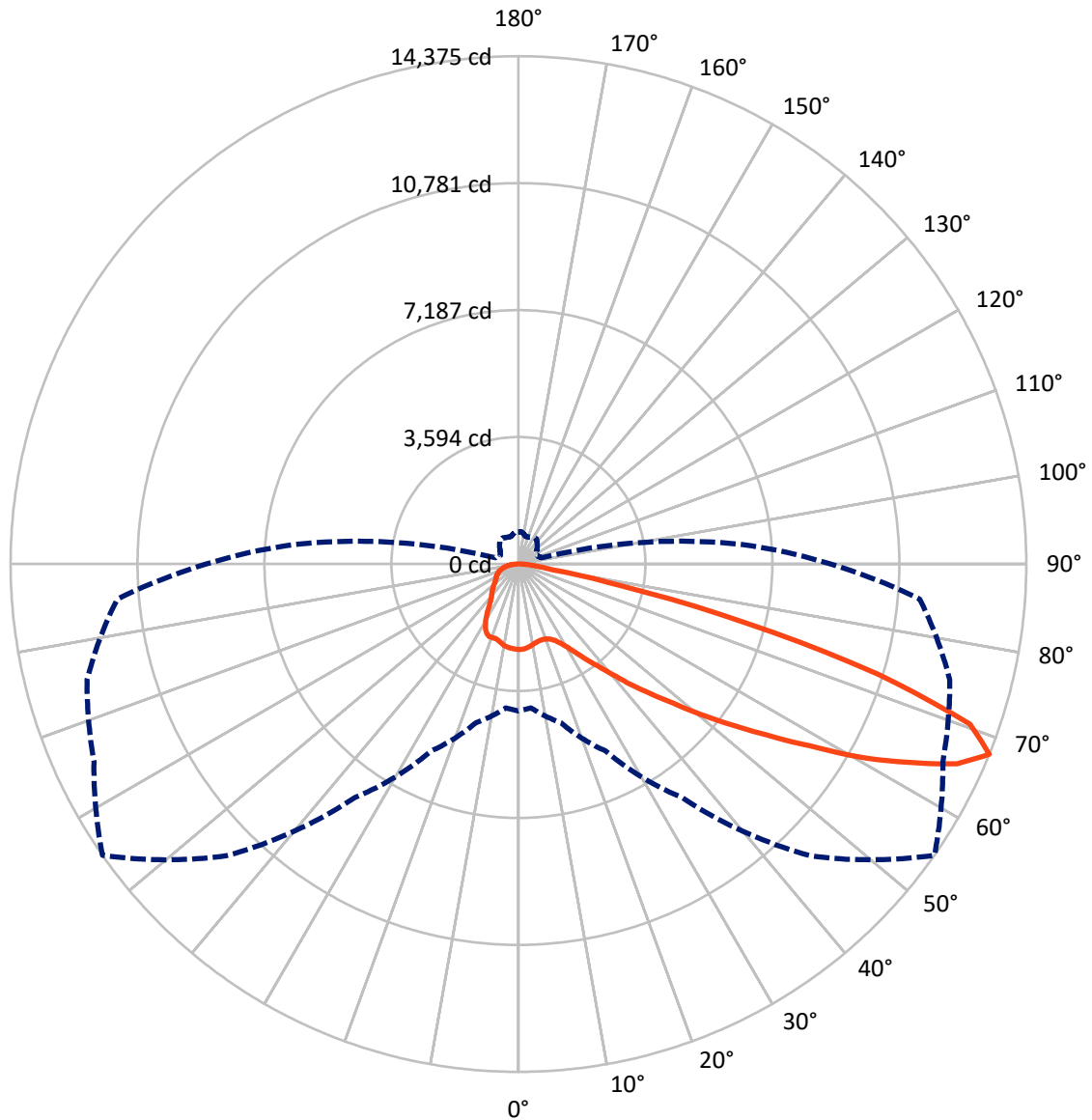
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4237.7	0.0	4237.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15379.3	0.0	15379.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	19617.0	0.0	19617.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	1.2
10°-20°	639.5	3.3
20°-30°	1071.2	5.5
30°-40°	1761.5	9.0
40°-50°	2965.1	15.1
50°-60°	4666.9	23.8
60°-70°	5569.4	28.4
70°-80°	2391.6	12.2
80°-90°	326.1	1.7
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°	19617.0	100.0
0°-180°	19617.0	100.0



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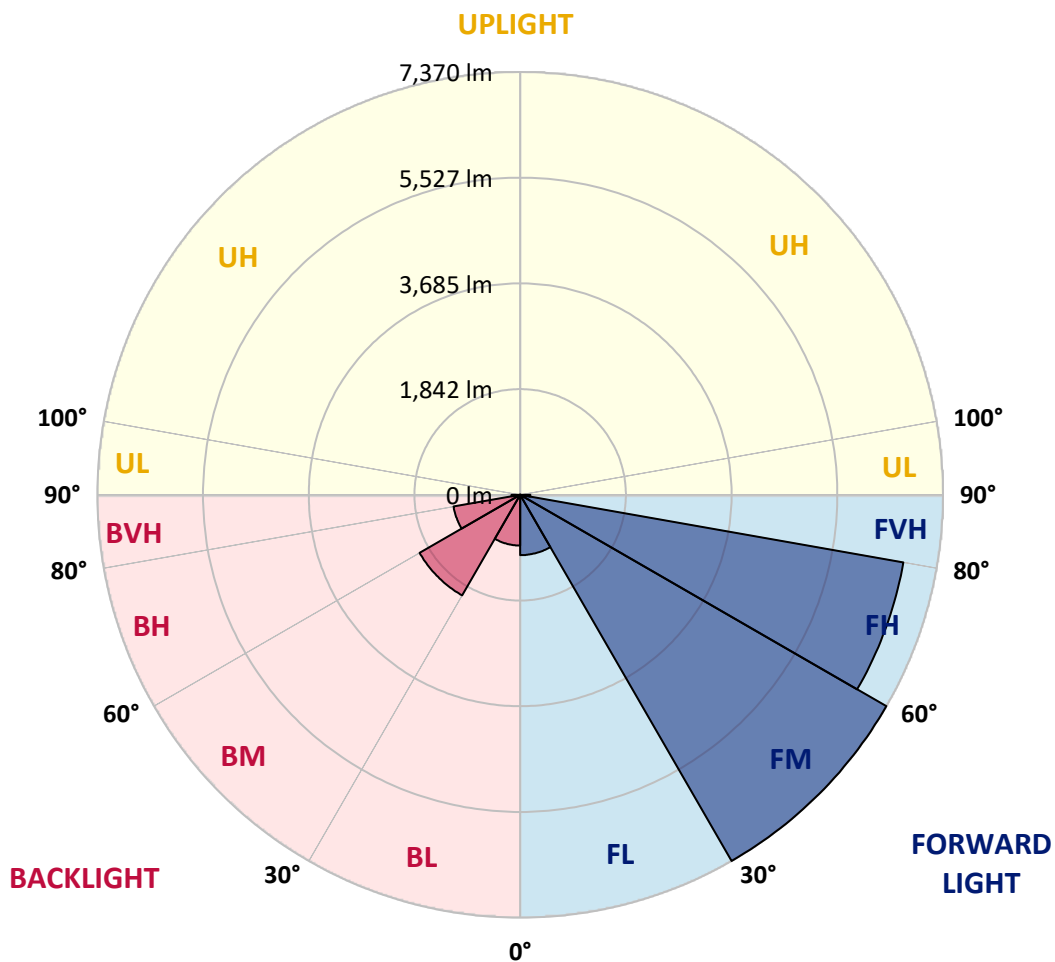
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.5	5.4			
FM	(30°-60°)	7369.6	37.6			
FH	(60°-80°)	6781.7	34.6			G3/7500
FVH	(80°-90°)	176.5	0.9			G2/225
BL	(0°-30°)	884.9	4.5	B2/1000		
BM	(30°-60°)	2023.9	10.3	B2/2500		
BH	(60°-80°)	1179.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	149.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0
2.5°	2398.1	2399.1	2401.0	2408.6	2415.2	2413.3	2414.3	2410.5	2409.5	2403.8	2409.5
5°	2367.8	2370.7	2371.6	2383.9	2391.5	2393.4	2390.6	2385.8	2380.1	2374.5	2377.3
7.5°	2298.7	2306.2	2307.2	2324.2	2336.6	2352.7	2353.6	2354.6	2351.7	2347.9	2353.6
10°	2255.1	2257.0	2256.0	2268.3	2277.8	2295.8	2306.2	2324.2	2331.8	2333.7	2337.5
12.5°	2252.2	2250.3	2247.5	2247.5	2244.6	2252.2	2271.2	2296.8	2314.8	2320.4	2325.2
15°	2282.5	2281.6	2272.1	2257.9	2239.9	2234.2	2250.3	2278.8	2302.4	2314.8	2319.5
17.5°	2350.8	2345.1	2329.9	2297.7	2258.9	2243.7	2245.6	2269.3	2296.8	2312.9	2317.6
20°	2475.8	2475.8	2443.6	2383.0	2313.8	2277.8	2260.8	2275.0	2301.5	2323.3	2329.9
22.5°	2691.9	2693.8	2639.8	2540.3	2423.7	2347.0	2304.3	2301.5	2332.8	2357.4	2365.0
25°	2997.9	2990.3	2914.5	2772.4	2595.2	2468.3	2394.4	2377.3	2403.8	2431.3	2440.8
27.5°	3354.2	3326.7	3236.7	3065.2	2835.9	2650.2	2536.5	2509.0	2534.6	2565.9	2575.3
30°	3706.7	3678.2	3571.2	3383.6	3128.7	2893.7	2730.7	2686.2	2722.2	2766.7	2772.4
32.5°	4059.1	4059.1	3939.7	3720.9	3443.2	3184.6	2989.4	2936.3	2996.0	3050.0	3062.3
35°	4480.8	4482.7	4367.1	4103.7	3805.2	3531.4	3316.3	3277.4	3367.4	3405.3	3434.7
37.5°	4999.1	5009.5	4860.7	4542.4	4215.5	3927.4	3671.6	3618.5	3708.6	3811.8	3906.6
40°	5559.0	5572.3	5408.4	5016.1	4689.2	4387.9	4111.2	4015.5	4165.2	4362.3	4484.6
42.5°	6093.4	6161.7	6003.4	5599.8	5248.3	4936.5	4656.1	4516.8	4704.4	5001.9	5108.0
45°	6865.6	6914.9	6639.2	6273.5	5942.8	5594.1	5222.7	5075.8	5338.3	5713.5	5735.3
47.5°	7380.1	7343.2	7203.0	6975.6	6766.2	6440.2	5881.2	5720.1	6068.8	6510.3	6388.1
50°	7654.0	7665.3	7646.4	7659.7	7667.2	7462.6	6688.5	6467.7	6883.7	7417.1	7135.7
52.5°	7909.8	7834.0	7896.5	8207.3	8582.5	8506.7	7566.8	7336.6	7757.3	8423.4	7925.9
55°	7904.1	7788.5	7992.2	8540.8	9354.8	9441.9	8553.2	8287.9	8681.1	9502.6	8763.5
57.5°	7624.6	7630.3	7943.9	8662.1	9892.9	10321.2	9697.8	9299.8	9660.8	10596.0	9528.2
60°	7239.9	7292.0	7744.0	8642.2	10324.1	11042.3	11102.0	10390.4	10620.6	11589.9	10161.1
62.5°	6619.3	6674.3	7297.7	8435.7	10258.7	11736.8	12371.6	11627.8	11624.0	12192.5	10346.8
65°	5640.5	5624.4	6279.1	7663.5	9710.1	12250.3	13632.8	12697.6	12380.2	12202.0	9973.5
67.5°	4159.6	4087.6	4649.4	5836.7	8070.9	11675.2	14374.7	13254.7	12637.9	11399.5	8832.7
70°	2158.4	2086.4	2541.2	3408.2	5307.9	9112.2	13553.2	12966.7	12068.4	9555.6	6919.7
72.5°	922.9	910.6	1095.3	1495.2	2567.7	5255.8	10627.3	11223.2	10355.3	7119.6	4757.4
75°	620.6	616.8	686.0	814.9	1155.0	2132.8	6650.6	7966.7	7576.3	4414.4	2675.8
77.5°	487.0	482.3	523.0	585.6	748.5	841.4	2951.5	4277.1	3958.7	1921.5	1171.1
80°	380.9	377.1	402.7	436.8	538.2	530.6	971.2	1701.7	1317.0	736.2	569.5
82.5°	300.4	300.4	321.2	322.2	381.8	361.9	506.9	749.5	657.6	429.2	348.7
85°	274.8	274.8	296.6	240.7	249.2	228.3	314.6	444.4	416.9	176.2	151.6
87.5°	138.3	134.5	249.2	213.2	135.5	121.3	153.5	215.1	231.2	97.6	75.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0	2419.0
2.5°	2407.6	2406.7	2408.6	2409.5	2417.1	2427.5	2432.3	2438.9	2442.7	2440.8
5°	2379.2	2381.1	2388.7	2394.4	2407.6	2424.7	2434.2	2441.7	2448.4	2445.5
7.5°	2355.5	2360.2	2371.6	2376.4	2383.9	2388.7	2387.7	2390.6	2396.3	2389.6
10°	2342.2	2347.9	2356.5	2349.8	2331.8	2306.2	2282.5	2270.2	2274.0	2269.3
12.5°	2329.0	2336.6	2329.9	2298.7	2248.4	2215.3	2197.3	2199.2	2207.7	2209.6
15°	2321.4	2324.2	2295.8	2237.1	2185.9	2181.2	2190.6	2188.7	2189.7	2189.7
17.5°	2321.4	2313.8	2260.8	2202.0	2180.2	2171.7	2142.3	2105.4	2089.3	2083.6
20°	2333.7	2313.8	2249.4	2210.5	2163.2	2090.2	2012.5	1944.3	1914.0	1905.4
22.5°	2370.7	2336.6	2281.6	2214.3	2079.8	1957.6	1834.4	1752.9	1697.9	1688.5
25°	2445.5	2407.6	2345.1	2164.1	1947.1	1772.8	1632.6	1541.6	1486.6	1479.1
27.5°	2576.3	2551.6	2379.2	2053.3	1770.9	1584.2	1454.4	1384.3	1343.6	1340.7
30°	2773.4	2761.0	2362.1	1889.3	1553.9	1401.4	1338.8	1298.1	1267.8	1266.8
32.5°	3087.9	2988.4	2306.2	1689.4	1355.9	1271.6	1246.0	1221.3	1197.7	1197.7
35°	3492.5	3172.3	2200.1	1475.3	1235.6	1199.5	1167.3	1128.5	1097.2	1095.3
37.5°	3968.2	3286.0	2009.7	1302.8	1178.7	1151.2	1103.8	1046.0	991.1	981.6
40°	4448.6	3320.1	1741.5	1196.7	1142.7	1102.9	1045.1	976.9	923.8	921.0
42.5°	4889.1	3254.7	1457.3	1123.7	1106.7	1053.6	993.0	932.3	890.7	889.7
45°	5258.7	3085.1	1218.5	1054.6	1068.8	1009.1	955.1	905.8	873.6	867.0
47.5°	5606.4	2845.4	1050.8	981.6	1030.9	984.5	939.0	892.6	861.3	856.5
50°	6010.0	2586.7	933.3	910.6	997.7	975.9	952.2	903.9	851.8	846.1
52.5°	6499.0	2363.1	841.4	848.0	972.1	987.3	986.4	936.1	845.2	837.6
55°	7044.7	2114.8	772.2	796.9	961.7	1008.1	994.9	966.5	850.9	839.5
57.5°	7582.0	1824.9	723.9	758.0	946.6	1006.3	954.1	913.4	864.1	848.0
60°	7984.7	1435.5	686.9	723.9	913.4	975.0	909.6	855.6	861.3	849.0
62.5°	8011.2	1109.5	642.4	694.5	863.2	943.7	880.2	830.0	873.6	862.2
65°	7540.3	838.5	599.8	659.5	809.2	923.8	851.8	815.8	899.2	886.9
67.5°	6348.3	674.6	563.8	623.5	755.2	882.1	826.2	802.5	921.9	900.1
70°	4583.1	575.1	528.7	579.9	706.8	834.8	803.5	778.9	860.3	826.2
72.5°	2821.7	498.4	488.9	522.1	669.9	785.5	769.4	734.3	775.1	747.6
75°	1408.9	432.1	444.4	465.2	617.8	729.6	712.5	677.5	683.2	677.5
77.5°	674.6	369.5	392.3	408.4	550.5	666.1	648.1	612.1	605.5	606.4
80°	427.3	308.9	330.7	342.1	491.8	592.2	574.2	538.2	614.0	569.5
82.5°	267.2	251.1	256.8	277.6	428.3	515.4	491.8	459.5	553.3	437.7
85°	147.8	175.3	182.9	200.9	329.7	431.1	407.4	366.7	328.8	323.1
87.5°	88.1	104.2	107.1	120.3	221.7	311.7	275.7	261.5	217.0	216.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)