

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: P191433

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191433
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-T3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20055 lumens
Efficiency: N/A
Efficacy: 123.8 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

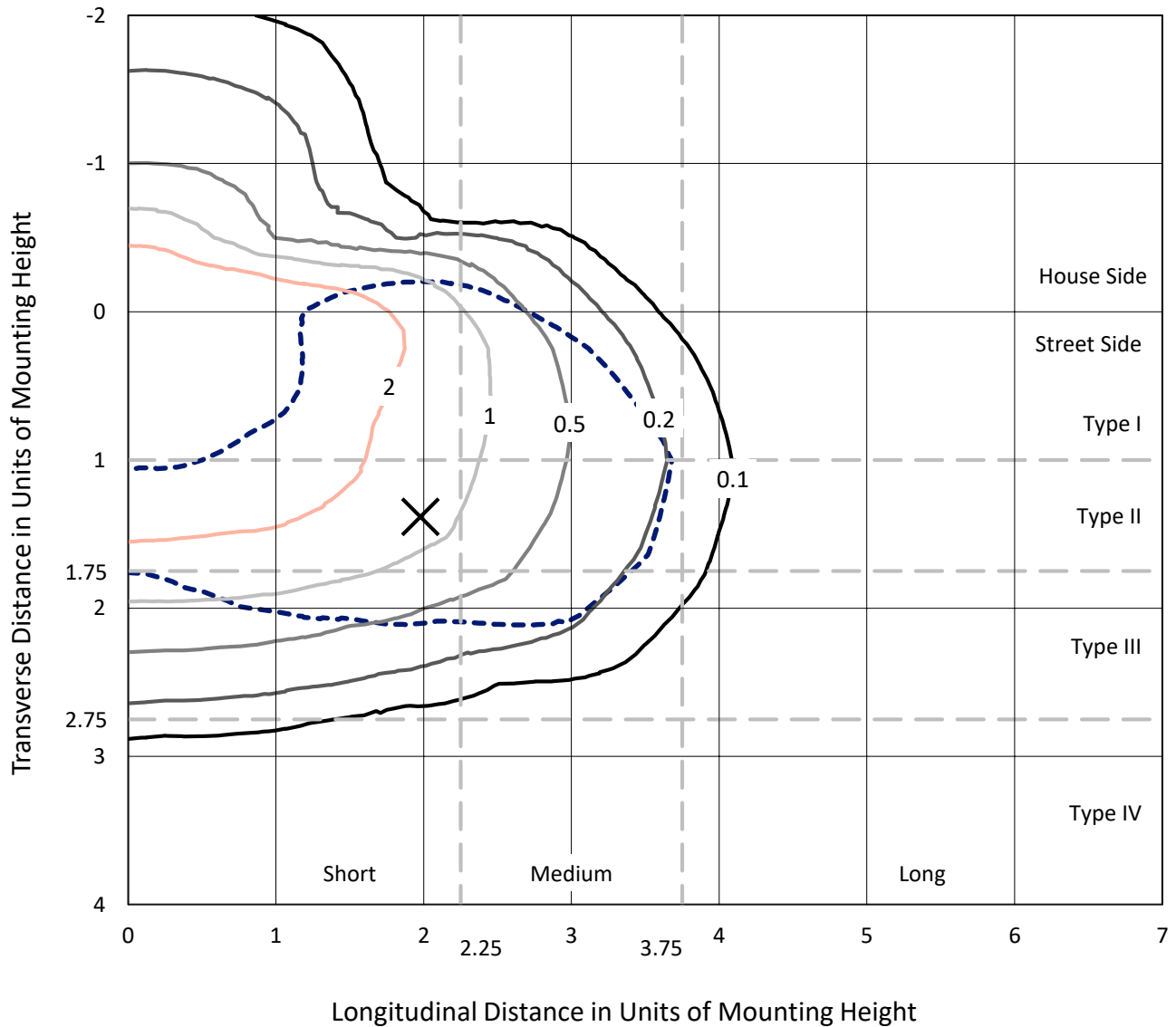
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

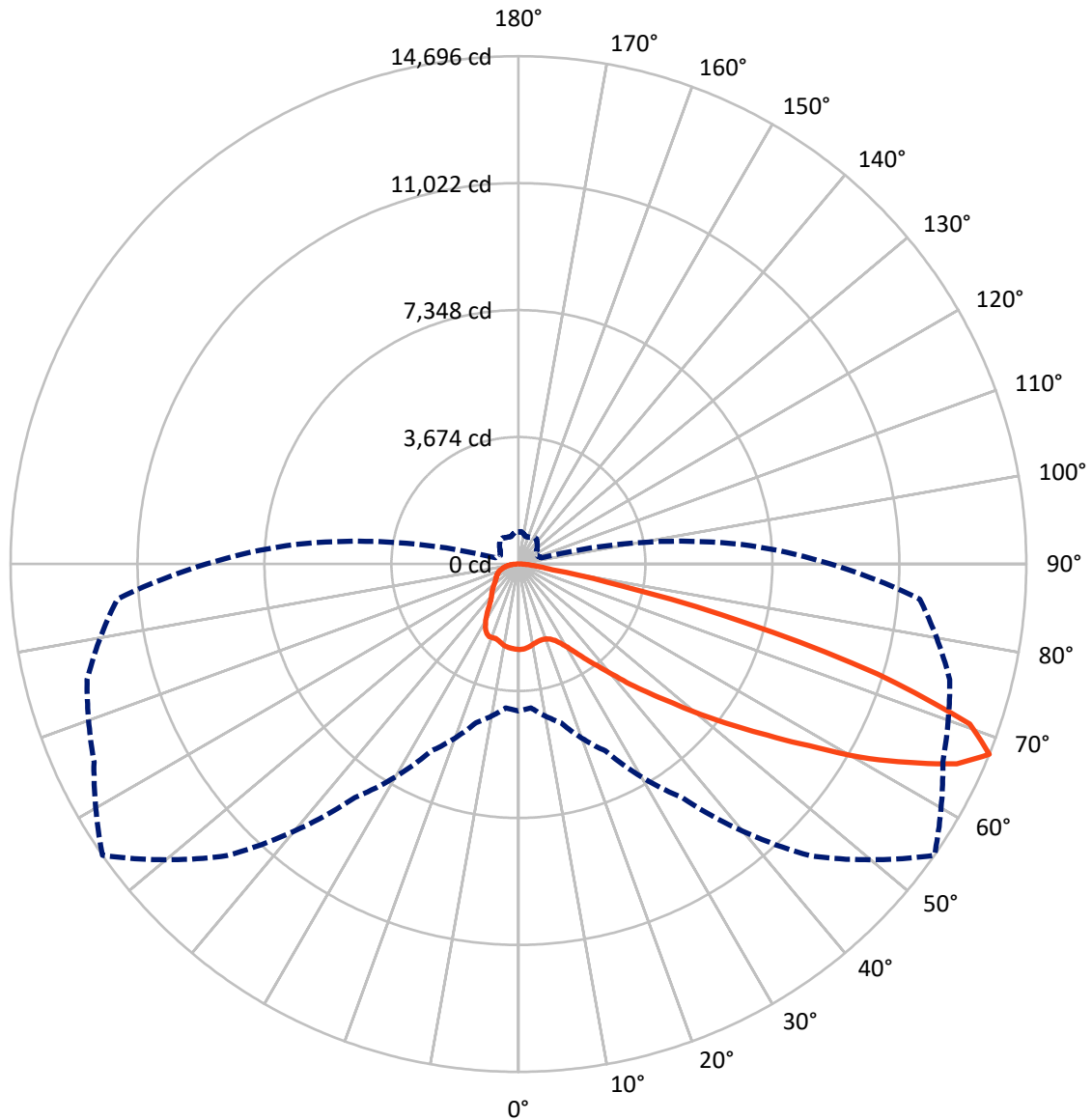
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	4332.3	0.0	4332.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15722.7	0.0	15722.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	20055.0	0.0	20055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.2
10°-20°	653.7	3.3
20°-30°	1095.1	5.5
30°-40°	1800.8	9.0
40°-50°	3031.3	15.1
50°-60°	4771.1	23.8
60°-70°	5693.8	28.4
70°-80°	2445.0	12.2
80°-90°	333.4	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°	20055.0	100.0
0°-180°	20055.0	100.0



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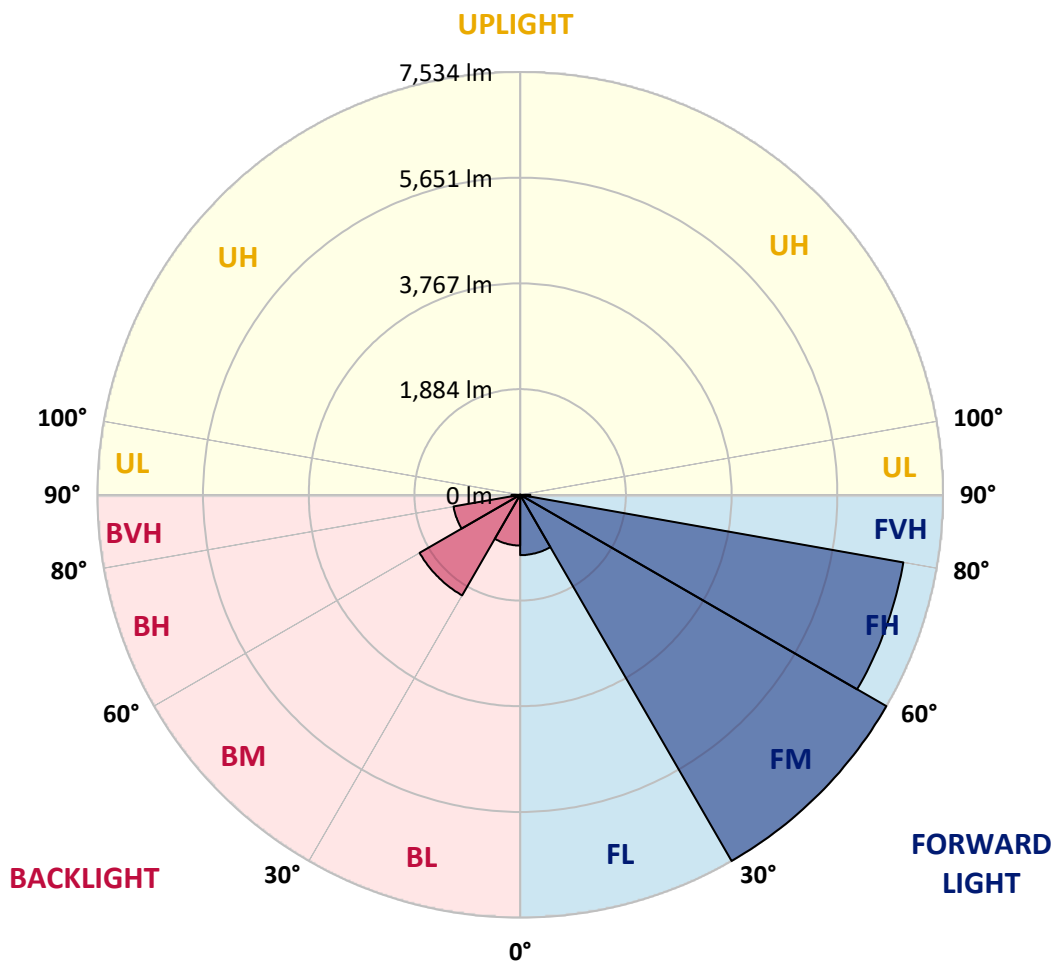
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1075.0	5.4			
FM	(30°-60°)	7534.1	37.6			
FH	(60°-80°)	6933.1	34.6			G3/7500
FVH	(80°-90°)	180.4	0.9			G2/225
BL	(0°-30°)	904.7	4.5	B2/1000		
BM	(30°-60°)	2069.1	10.3	B2/2500		
BH	(60°-80°)	1205.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	152.9	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°	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0
2.5°	2451.7	2452.6	2454.6	2462.3	2469.1	2467.2	2468.2	2464.3	2463.3	2457.5	2463.3
5°	2420.7	2423.6	2424.6	2437.2	2444.9	2446.8	2443.9	2439.1	2433.3	2427.5	2430.3
7.5°	2350.0	2357.7	2358.7	2376.1	2388.7	2405.2	2406.2	2407.1	2404.2	2400.4	2406.2
10°	2305.4	2307.4	2306.3	2318.9	2328.6	2347.1	2357.7	2376.1	2383.9	2385.8	2389.7
12.5°	2302.6	2300.6	2297.6	2297.6	2294.8	2302.6	2321.9	2348.1	2366.4	2372.2	2377.1
15°	2333.6	2332.5	2322.8	2308.3	2289.9	2284.1	2300.6	2329.7	2353.8	2366.4	2371.3
17.5°	2403.2	2397.5	2381.9	2349.0	2309.3	2293.8	2295.7	2320.0	2348.1	2364.6	2369.4
20°	2531.1	2531.1	2498.1	2436.2	2365.5	2328.6	2311.3	2325.8	2352.9	2375.2	2381.9
22.5°	2751.9	2753.9	2698.6	2597.0	2477.8	2399.3	2355.8	2352.9	2384.8	2410.1	2417.7
25°	3064.9	3057.1	2979.7	2834.3	2653.1	2523.4	2447.8	2430.3	2457.5	2485.6	2495.3
27.5°	3429.0	3401.0	3308.9	3133.6	2899.2	2709.4	2593.1	2565.0	2591.1	2623.2	2632.9
30°	3789.4	3760.4	3650.9	3459.1	3198.6	2958.3	2791.7	2746.1	2782.9	2828.5	2834.3
32.5°	4149.7	4149.7	4027.7	3803.9	3520.1	3255.6	3056.2	3001.8	3062.9	3118.2	3130.7
35°	4580.8	4582.7	4464.6	4195.3	3890.2	3610.2	3390.4	3350.6	3442.6	3481.4	3511.4
37.5°	5110.7	5121.3	4969.2	4643.8	4309.6	4015.1	3753.6	3699.3	3791.4	3896.9	3993.8
40°	5683.1	5696.7	5529.2	5128.1	4794.0	4485.8	4203.0	4105.2	4258.2	4459.8	4584.7
42.5°	6229.5	6299.2	6137.4	5724.8	5365.4	5046.7	4760.0	4617.6	4809.4	5113.5	5222.1
45°	7019.0	7069.3	6787.4	6413.5	6075.4	5719.0	5339.3	5189.1	5457.4	5841.0	5863.3
47.5°	7544.9	7507.1	7363.8	7131.3	6917.2	6584.0	6012.5	5847.8	6204.3	6655.7	6530.7
50°	7824.9	7836.5	7817.1	7830.7	7838.5	7629.2	6837.8	6612.0	7037.3	7582.7	7295.0
52.5°	8086.4	8008.9	8072.8	8390.5	8774.2	8696.6	7735.8	7500.4	7930.4	8611.4	8102.9
55°	8080.6	7962.4	8170.6	8731.5	9563.6	9652.8	8744.1	8472.9	8874.9	9714.8	8959.1
57.5°	7794.8	7800.6	8121.3	8855.5	10113.8	10551.6	9914.2	9507.4	9876.5	10832.5	9740.8
60°	7401.6	7454.9	7916.9	8835.1	10554.5	11288.8	11349.8	10622.3	10857.7	11848.6	10388.0
62.5°	6767.0	6823.3	7460.6	8624.0	10487.7	11998.8	12647.9	11887.4	11883.5	12464.8	10577.8
65°	5766.5	5750.0	6419.3	7834.6	9926.8	12523.8	13937.1	12981.0	12656.6	12474.5	10196.2
67.5°	4252.4	4178.9	4753.2	5967.0	8251.0	11935.9	14695.6	13550.6	12920.0	11654.0	9029.9
70°	2206.6	2133.0	2598.0	3484.3	5426.4	9315.6	13855.8	13256.1	12337.8	9769.0	7074.1
72.5°	943.5	930.9	1119.8	1528.6	2625.1	5373.2	10864.6	11473.8	10586.5	7278.5	4863.6
75°	634.4	630.6	701.3	833.1	1180.8	2180.4	6799.0	8144.5	7745.4	4513.0	2735.5
77.5°	497.9	493.1	534.7	598.6	765.3	860.2	3017.4	4372.5	4047.1	1964.5	1197.3
80°	389.4	385.6	411.6	446.5	550.2	542.5	992.9	1739.7	1346.4	752.7	582.2
82.5°	307.1	307.1	328.4	329.4	390.4	370.0	518.2	766.2	672.3	438.8	356.5
85°	280.9	280.9	303.2	246.0	254.7	233.4	321.6	454.3	426.2	180.1	155.0
87.5°	141.5	137.6	254.7	218.0	138.5	124.0	156.9	219.9	236.4	99.7	77.5
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°	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0
2.5°	2461.3	2460.4	2462.3	2463.3	2471.0	2481.7	2486.6	2493.3	2497.2	2495.3
5°	2432.3	2434.2	2442.0	2447.8	2461.3	2478.8	2488.5	2496.2	2503.1	2500.1
7.5°	2408.1	2412.9	2424.6	2429.4	2437.2	2442.0	2441.1	2443.9	2449.8	2443.0
10°	2394.5	2400.4	2409.0	2402.3	2383.9	2357.7	2333.6	2320.9	2324.8	2320.0
12.5°	2381.0	2388.7	2381.9	2350.0	2298.7	2264.7	2246.3	2248.2	2256.9	2258.9
15°	2373.2	2376.1	2347.1	2287.0	2234.7	2229.8	2239.5	2237.6	2238.6	2238.6
17.5°	2373.2	2365.5	2311.3	2251.2	2228.9	2220.2	2190.1	2152.4	2135.9	2130.1
20°	2385.8	2365.5	2299.6	2259.9	2211.4	2136.8	2057.5	1987.7	1956.7	1948.0
22.5°	2423.6	2388.7	2332.5	2263.8	2126.2	2001.3	1875.4	1792.0	1735.8	1726.1
25°	2500.1	2461.3	2397.5	2212.4	1990.6	1812.4	1669.0	1576.1	1519.8	1512.1
27.5°	2633.8	2608.6	2432.3	2099.1	1810.4	1619.6	1486.9	1415.3	1373.5	1370.7
30°	2835.3	2822.7	2414.9	1931.5	1588.6	1432.6	1368.7	1327.1	1296.1	1295.1
32.5°	3156.8	3055.1	2357.7	1727.2	1386.2	1300.0	1273.8	1248.6	1224.4	1224.4
35°	3570.5	3243.1	2249.3	1508.2	1263.1	1226.3	1193.4	1153.7	1121.7	1119.8
37.5°	4056.7	3359.4	2054.5	1331.9	1205.0	1176.9	1128.5	1069.4	1013.2	1003.5
40°	4547.8	3394.2	1780.4	1223.4	1168.2	1127.5	1068.5	998.7	944.5	941.5
42.5°	4998.3	3327.4	1489.8	1148.9	1131.4	1077.2	1015.2	953.2	910.5	909.6
45°	5376.1	3154.0	1245.7	1078.1	1092.6	1031.6	976.4	926.1	893.1	886.3
47.5°	5731.6	2908.9	1074.2	1003.5	1053.9	1006.5	959.9	912.5	880.6	875.6
50°	6144.3	2644.4	954.1	930.9	1020.0	997.7	973.5	924.1	870.8	865.0
52.5°	6644.1	2415.8	860.2	867.0	993.8	1009.3	1008.4	957.1	864.1	856.3
55°	7202.0	2162.0	789.4	814.7	983.2	1030.6	1017.1	988.1	869.8	858.3
57.5°	7751.2	1865.7	740.1	774.9	967.7	1028.7	975.5	933.7	883.4	867.0
60°	8162.9	1467.5	702.3	740.1	933.7	996.8	930.0	874.7	880.6	867.9
62.5°	8190.1	1134.4	656.7	710.0	882.5	964.7	899.9	848.5	893.1	881.5
65°	7708.7	857.2	613.2	674.2	827.3	944.5	870.8	834.0	919.2	906.6
67.5°	6490.0	689.7	576.3	637.4	772.0	901.8	844.7	820.4	942.5	920.2
70°	4685.4	588.0	540.5	592.8	722.6	853.3	821.4	796.3	879.5	844.7
72.5°	2884.7	509.5	499.8	533.8	684.9	803.0	786.5	750.7	792.4	764.2
75°	1440.4	441.7	454.3	475.6	631.6	745.8	728.4	692.6	698.4	692.6
77.5°	689.7	377.8	401.0	417.5	562.8	681.0	662.6	625.7	619.0	619.9
80°	436.9	315.8	338.1	349.6	502.8	605.4	587.0	550.2	627.7	582.2
82.5°	273.1	256.7	262.5	283.9	437.8	526.9	502.8	469.8	565.7	447.5
85°	151.1	179.2	187.0	205.3	337.1	440.8	416.5	374.9	336.1	330.3
87.5°	90.1	106.6	109.5	123.1	226.7	318.6	281.9	267.4	221.8	220.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)