

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: P522732

Luminaire Tested: **GALN-SA4B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20515 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

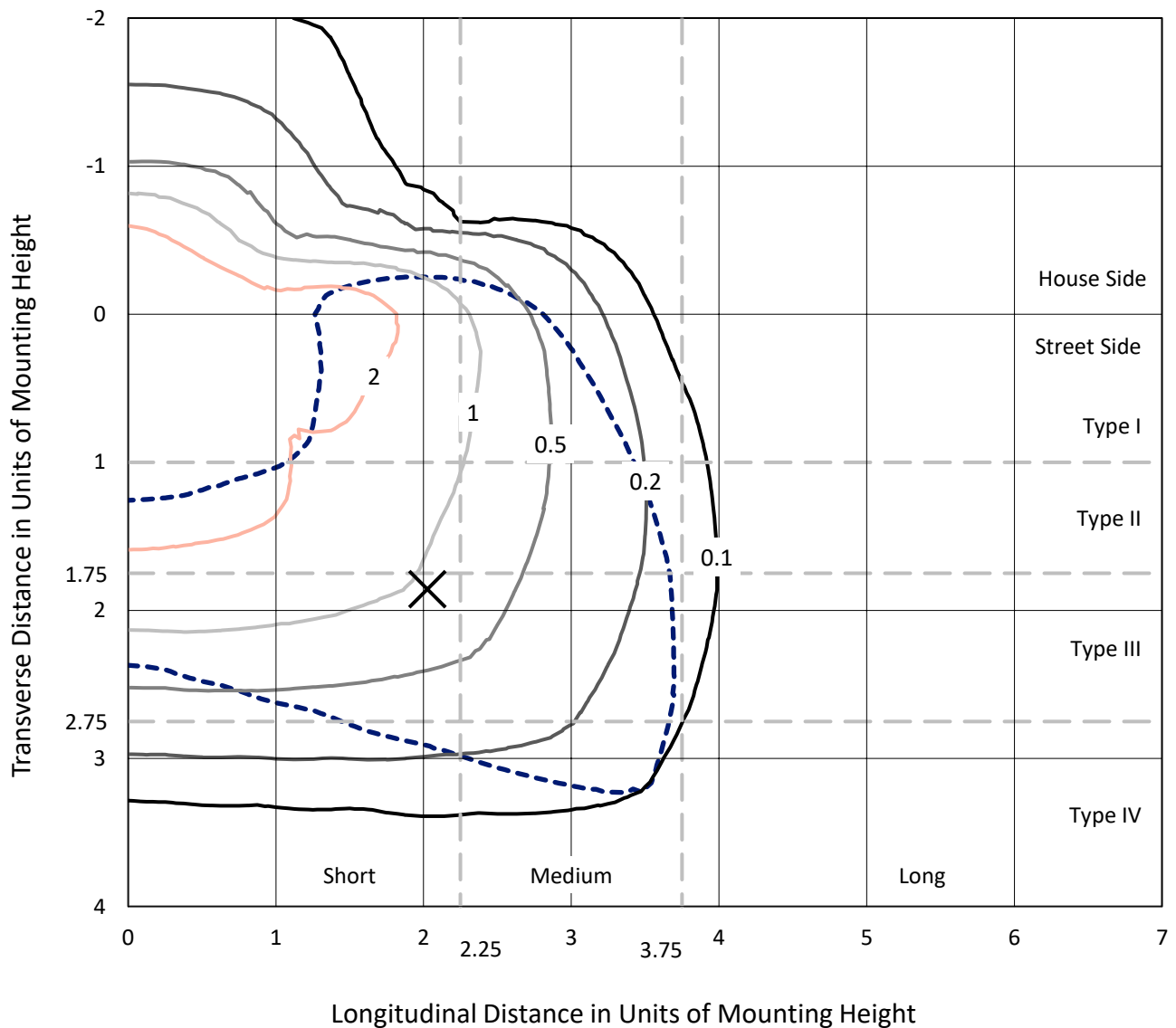
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

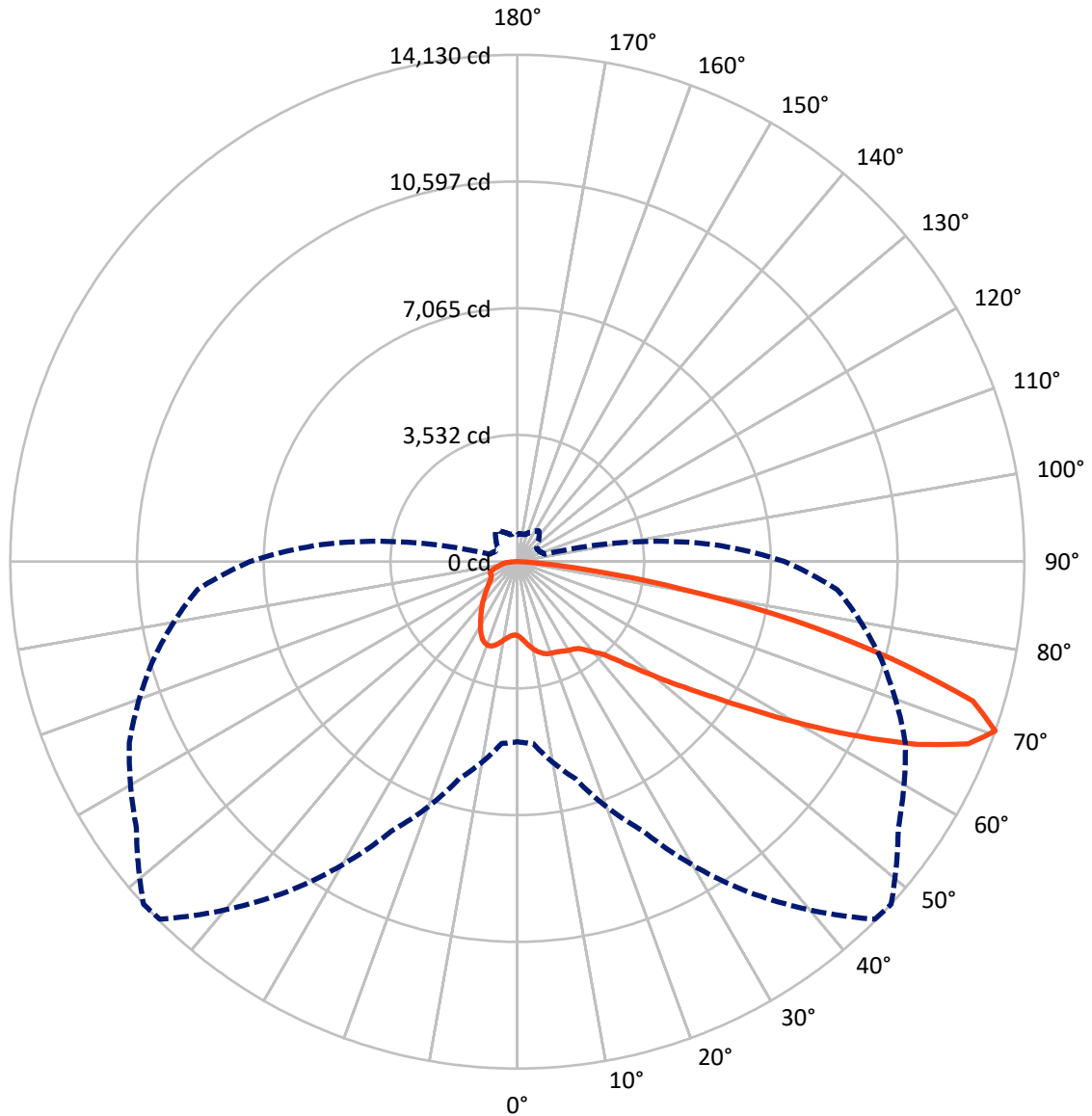
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4645.0	0.0	4645.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15870.0	0.0	15870.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	20515.0	0.0	20515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.0
10°-20°	709.7	3.5
20°-30°	1180.2	5.8
30°-40°	1672.8	8.2
40°-50°	2469.4	12.0
50°-60°	4277.1	20.8
60°-70°	6041.5	29.4
70°-80°	3473.0	16.9
80°-90°	479.2	2.3
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°	20515.0	100.0
0°-180°	20515.0	100.0

Coefficient of Utilization



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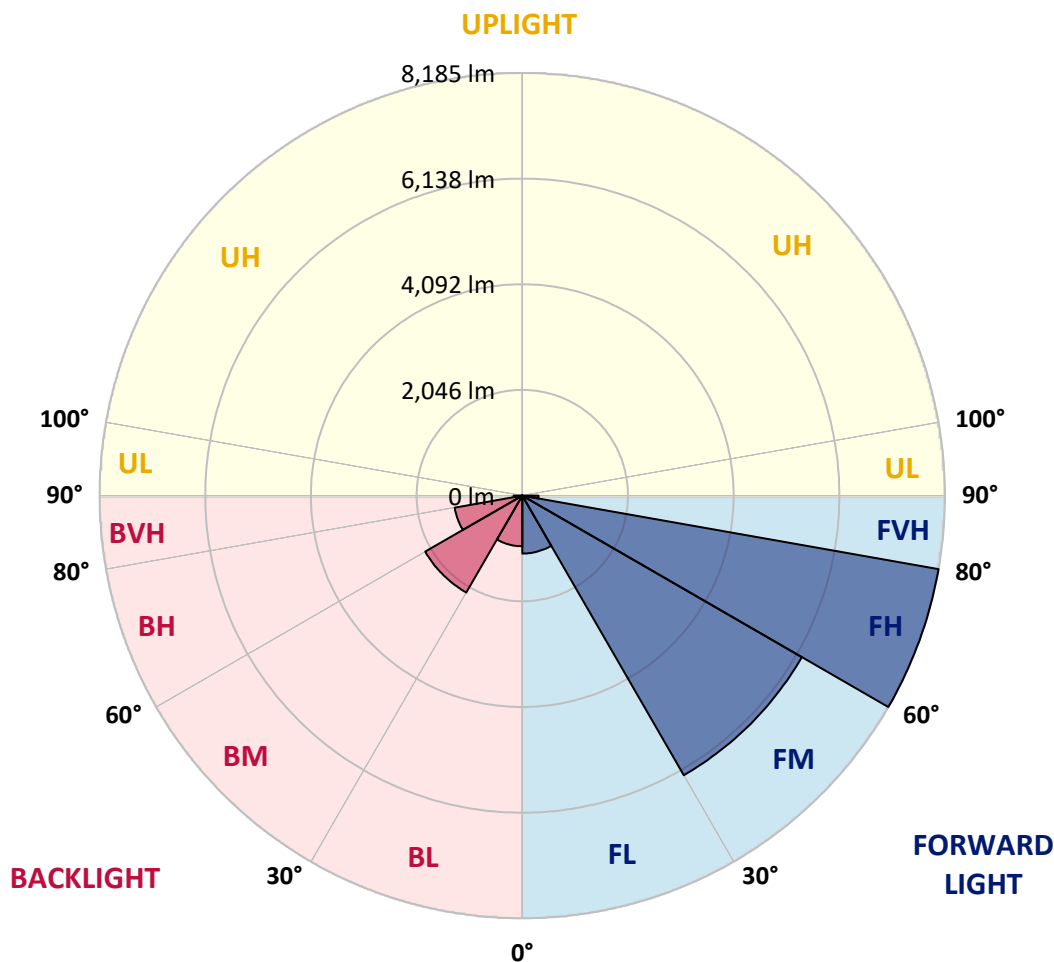
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1121.8	5.5			
FM	(30°-60°)	6250.5	30.5			
FH	(60°-80°)	8184.6	39.9			G4/12000
FVH	(80°-90°)	313.0	1.5			G3/500
BL	(0°-30°)	980.4	4.8	B2/1000		
BM	(30°-60°)	2168.7	10.6	B2/2500		
BH	(60°-80°)	1329.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	166.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5
2.5°	2192.3	2184.6	2183.5	2167.0	2158.3	2141.8	2135.2	2119.8	2101.2	2082.5	2064.9
5°	2364.6	2364.6	2357.0	2333.9	2297.7	2260.4	2243.9	2214.2	2161.6	2118.7	2082.5
7.5°	2541.4	2543.6	2528.2	2494.2	2442.6	2382.2	2366.8	2322.9	2248.3	2185.7	2131.9
10°	2694.0	2694.0	2673.1	2627.0	2562.2	2496.4	2481.0	2431.6	2348.2	2270.2	2200.0
12.5°	2810.3	2810.3	2782.9	2722.5	2652.3	2593.0	2575.4	2528.2	2450.3	2363.5	2274.6
15°	2886.1	2880.6	2849.9	2781.8	2713.7	2662.1	2650.1	2610.6	2539.2	2451.4	2351.5
17.5°	2889.4	2887.2	2857.6	2800.5	2741.2	2706.1	2698.4	2672.0	2616.0	2532.6	2427.2
20°	2825.7	2830.1	2810.3	2769.7	2741.2	2725.8	2722.5	2713.7	2674.2	2596.3	2490.9
22.5°	2757.7	2765.3	2746.7	2724.7	2722.5	2737.9	2740.1	2742.3	2717.0	2641.3	2544.7
25°	2741.2	2746.7	2728.0	2708.3	2720.3	2760.9	2769.7	2778.5	2758.8	2695.1	2608.4
27.5°	2824.6	2820.2	2784.0	2741.2	2748.9	2803.8	2815.8	2825.7	2815.8	2760.9	2687.4
30°	3060.6	3046.4	2973.9	2848.8	2809.3	2847.7	2859.8	2887.2	2887.2	2846.6	2773.0
32.5°	3455.9	3428.4	3295.6	3049.7	2912.4	2889.4	2901.5	2946.5	2969.5	2937.7	2857.6
35°	3935.6	3907.0	3717.1	3386.7	3101.3	2972.8	2969.5	3020.0	3081.5	3010.1	2905.9
37.5°	4417.5	4387.9	4159.5	3788.5	3376.8	3148.5	3128.7	3146.3	3172.6	3042.0	2972.8
40°	4899.4	4864.3	4664.5	4237.5	3713.8	3381.2	3329.6	3250.6	3239.6	3146.3	3102.4
42.5°	5377.0	5345.2	5244.2	4741.4	4117.8	3608.4	3529.4	3393.3	3435.0	3379.0	3340.6
45°	5858.9	5861.1	5753.5	5306.7	4605.2	4027.8	3921.3	3708.3	3807.1	3786.3	3808.2
47.5°	6286.0	6280.5	6242.0	5855.6	5210.1	4567.9	4430.7	4183.7	4352.7	4429.6	4597.6
50°	6699.8	6696.5	6698.7	6478.1	5912.7	5210.1	5058.6	4799.5	5180.5	5447.2	5748.0
52.5°	7292.6	7311.3	7178.5	7120.3	6766.8	5968.7	5801.8	5534.0	6158.6	6579.1	7166.4
55°	7887.6	7872.3	7768.0	7828.4	7660.4	6866.7	6692.1	6479.2	7247.6	7707.6	8590.2
57.5°	8237.8	8243.3	8349.8	8645.1	8763.7	7986.4	7828.4	7663.7	8471.7	8797.7	9857.1
60°	8552.9	8578.2	8884.4	9442.1	9763.8	9362.0	9221.5	9061.2	9594.7	9724.2	10957.1
62.5°	8651.7	8729.6	9264.3	10098.6	10738.6	10914.3	10739.7	10386.2	10664.0	10613.5	11702.5
65°	8158.8	8265.3	9223.7	10344.5	11609.2	12387.5	12276.6	11620.1	11575.1	11271.0	11824.3
67.5°	6861.2	6967.7	8198.3	9828.5	11969.2	13663.1	13552.3	12520.3	12128.4	11332.5	10902.2
70°	5020.2	5087.2	6264.0	8275.2	11245.8	14091.3	14129.7	12959.4	11930.8	10497.1	8951.4
72.5°	2892.7	3040.9	3865.3	5821.6	9187.4	13008.8	13275.6	12046.1	10681.5	8757.1	6258.5
75°	1243.8	1247.1	1787.2	3211.0	6222.3	10456.5	10714.5	9985.5	8388.2	6055.4	3341.7
77.5°	591.7	602.7	786.0	1433.7	3425.1	7224.6	7920.6	7054.4	5364.9	2909.2	1262.5
80°	384.2	391.9	480.8	711.4	1679.6	4189.2	4674.4	4069.5	2366.8	1039.6	544.5
82.5°	232.7	234.9	321.7	434.7	924.3	1897.0	2236.2	1766.3	1010.0	622.4	320.6
85°	141.6	142.7	195.4	269.0	561.0	655.4	672.9	667.5	592.8	407.3	171.3
87.5°	68.1	70.3	101.0	127.3	220.7	203.1	192.1	222.9	279.9	219.6	73.6
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°	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5	2059.5
2.5°	2057.3	2054.0	2046.3	2043.0	2040.8	2041.9	2040.8	2040.8	2041.9	2041.9	2041.9
5°	2067.1	2061.7	2049.6	2049.6	2056.2	2071.5	2085.8	2096.8	2108.9	2107.8	2107.8
7.5°	2110.0	2100.1	2085.8	2090.2	2106.7	2130.8	2156.1	2180.2	2204.4	2206.6	2205.5
10°	2172.5	2162.7	2147.3	2152.8	2179.1	2215.3	2247.2	2282.3	2308.7	2316.3	2314.1
12.5°	2243.9	2224.1	2211.0	2226.3	2268.0	2316.3	2347.1	2373.4	2392.1	2403.1	2398.7
15°	2316.3	2297.7	2282.3	2314.1	2364.6	2409.7	2425.0	2429.4	2432.7	2443.7	2441.5
17.5°	2386.6	2361.4	2355.9	2397.6	2445.9	2465.6	2456.9	2438.2	2423.9	2432.7	2431.6
20°	2449.2	2429.4	2427.2	2468.9	2487.6	2468.9	2431.6	2398.7	2373.4	2375.6	2374.5
22.5°	2508.5	2493.1	2495.3	2512.8	2483.2	2419.5	2358.1	2313.0	2285.6	2291.1	2294.4
25°	2574.3	2559.0	2564.4	2535.9	2438.2	2327.3	2238.4	2200.0	2189.0	2200.0	2207.7
27.5°	2660.0	2650.1	2646.8	2537.0	2358.1	2191.2	2090.2	2075.9	2085.8	2110.0	2122.0
30°	2752.2	2752.2	2734.6	2518.3	2248.3	2027.6	1939.8	1942.0	1976.0	2010.1	2022.1
32.5°	2841.1	2859.8	2804.9	2467.8	2106.7	1868.4	1801.5	1803.7	1833.3	1875.0	1886.0
35°	2914.6	2968.4	2865.2	2375.6	1939.8	1734.5	1684.0	1654.4	1655.5	1687.3	1696.1
37.5°	3015.6	3115.5	2900.4	2238.4	1762.0	1620.3	1563.3	1511.7	1477.6	1464.5	1464.5
40°	3191.3	3338.4	2909.2	2035.3	1594.0	1511.7	1430.4	1368.9	1303.1	1243.8	1232.8
42.5°	3488.8	3674.3	2891.6	1801.5	1442.5	1392.0	1313.0	1237.2	1146.1	1062.7	1056.1
45°	4015.7	4111.2	2844.4	1558.9	1307.5	1276.7	1199.9	1117.6	1020.9	946.3	940.8
47.5°	4859.9	4724.9	2781.8	1343.7	1184.5	1175.7	1116.5	1020.9	924.3	872.7	867.3
50°	6092.7	5691.0	2773.0	1187.8	1085.7	1090.1	1041.8	954.0	869.5	826.6	820.1
52.5°	7577.0	6857.9	2831.2	1078.0	999.0	1015.5	991.3	910.1	835.4	799.2	792.6
55°	9017.3	7907.4	2866.3	992.4	917.8	948.5	951.8	883.7	815.7	779.4	775.0
57.5°	10186.4	8697.8	2710.5	914.5	847.5	894.7	918.9	868.4	805.8	778.3	773.9
60°	10999.9	9071.1	2266.9	845.3	795.9	851.9	906.8	869.5	829.9	833.2	835.4
62.5°	11259.0	8905.3	1700.5	793.7	760.8	837.6	926.5	914.5	873.8	899.1	903.5
65°	10829.7	8220.3	1232.8	753.1	730.0	847.5	985.8	947.4	858.5	877.1	877.1
67.5°	9392.7	7081.9	959.5	715.8	694.9	866.2	1045.1	944.1	822.2	844.2	824.4
70°	7450.7	5478.0	799.2	674.0	657.6	838.7	1050.6	910.1	779.4	783.8	746.5
72.5°	4944.5	3601.9	687.2	634.5	600.5	754.2	1005.6	866.2	737.7	712.5	675.1
75°	2422.8	1796.0	599.4	585.1	525.8	656.5	944.1	824.4	692.7	653.2	632.3
77.5°	938.6	764.1	511.6	522.5	457.8	578.5	862.9	765.2	633.4	579.6	563.2
80°	455.6	433.6	419.4	435.8	376.5	492.9	788.2	713.6	578.5	519.3	495.1
82.5°	283.2	267.9	321.7	339.2	289.8	450.1	747.6	669.7	509.4	430.3	410.6
85°	143.8	153.7	215.2	231.6	207.5	357.9	615.9	502.8	367.8	305.2	307.4
87.5°	54.9	73.6	113.1	121.9	110.9	188.8	339.2	293.1	236.0	160.3	148.2
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)