

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: P651311

Luminaire Tested: **GALN-SA3D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11598.2 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

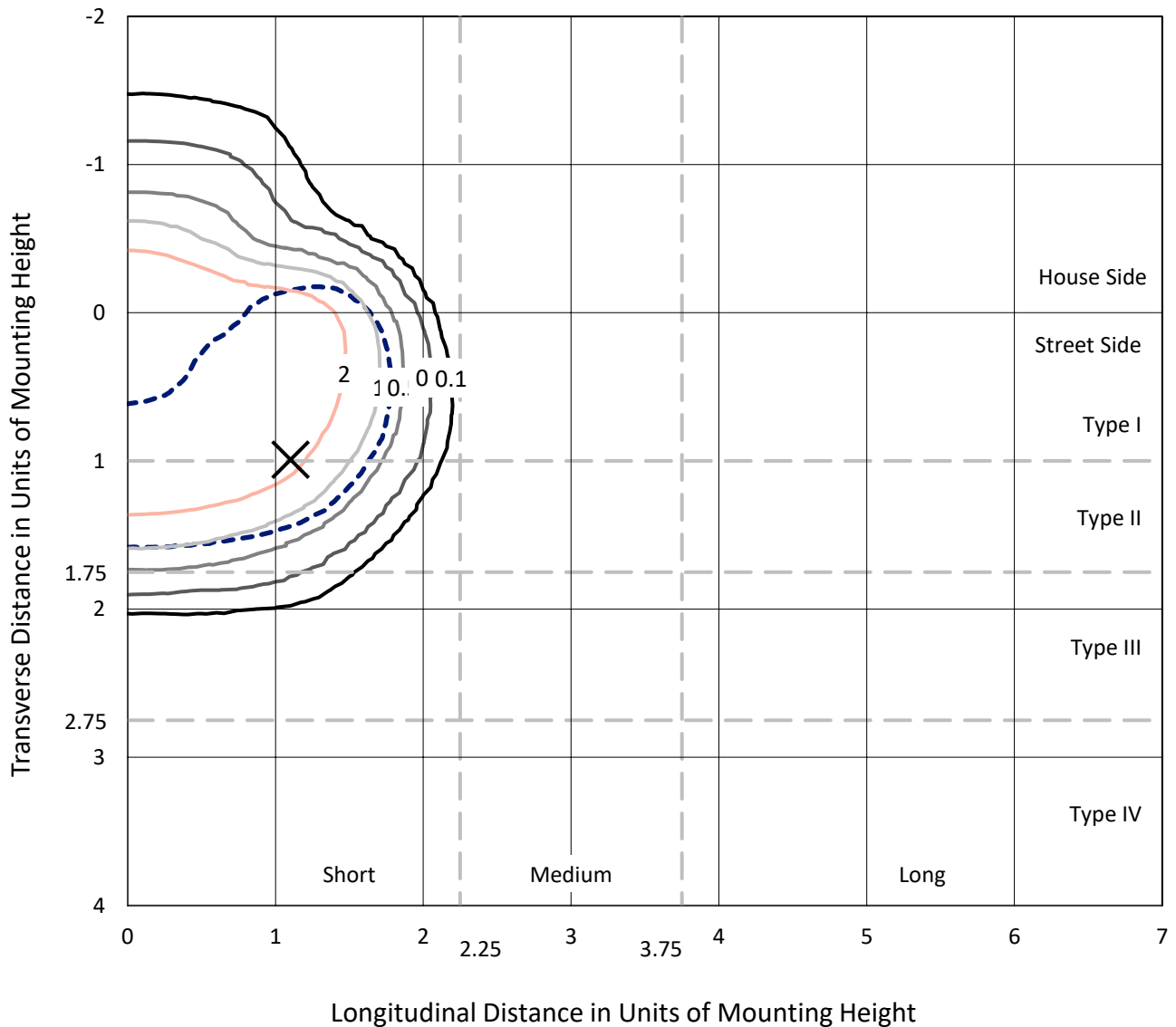
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651311
 CATALOG NUMBER: GALN-SA3D-840-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

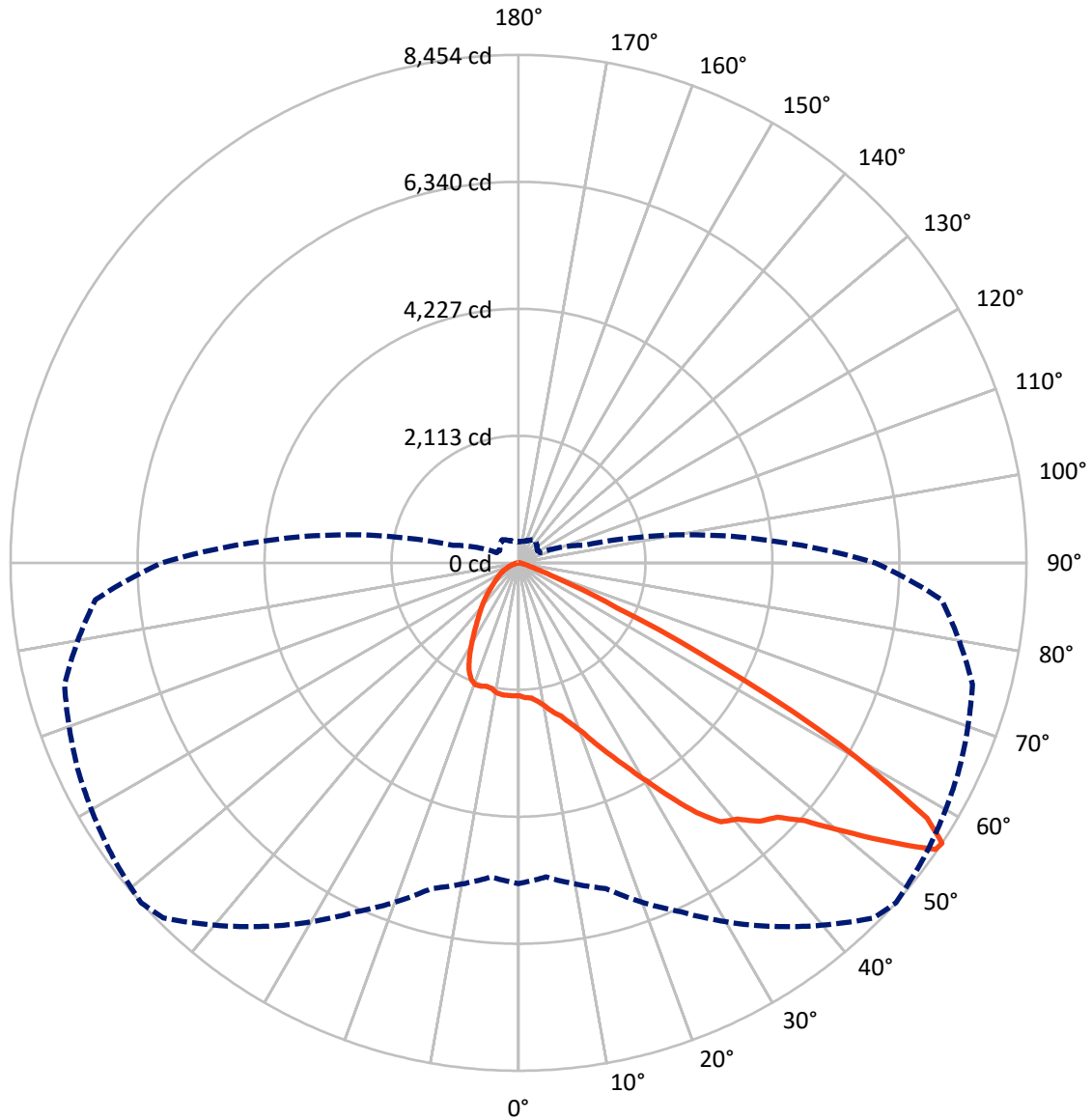
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P651311
CATALOG NUMBER: GALN-SA3D-840-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651311
 CATALOG NUMBER: GALN-SA3D-840-U-T3-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2522.4	0.0	2522.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9075.8	0.0	9075.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	11598.2	0.0	11598.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.9
10°-20°	689.6	5.9
20°-30°	1250.9	10.8
30°-40°	1964.8	16.9
40°-50°	2866.3	24.7
50°-60°	3453.4	29.8
60°-70°	1011.1	8.7
70°-80°	128.3	1.1
80°-90°	18.0	0.2
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°	11598.2	100.0
0°-180°	11598.2	100.0

Coefficient of Utilization

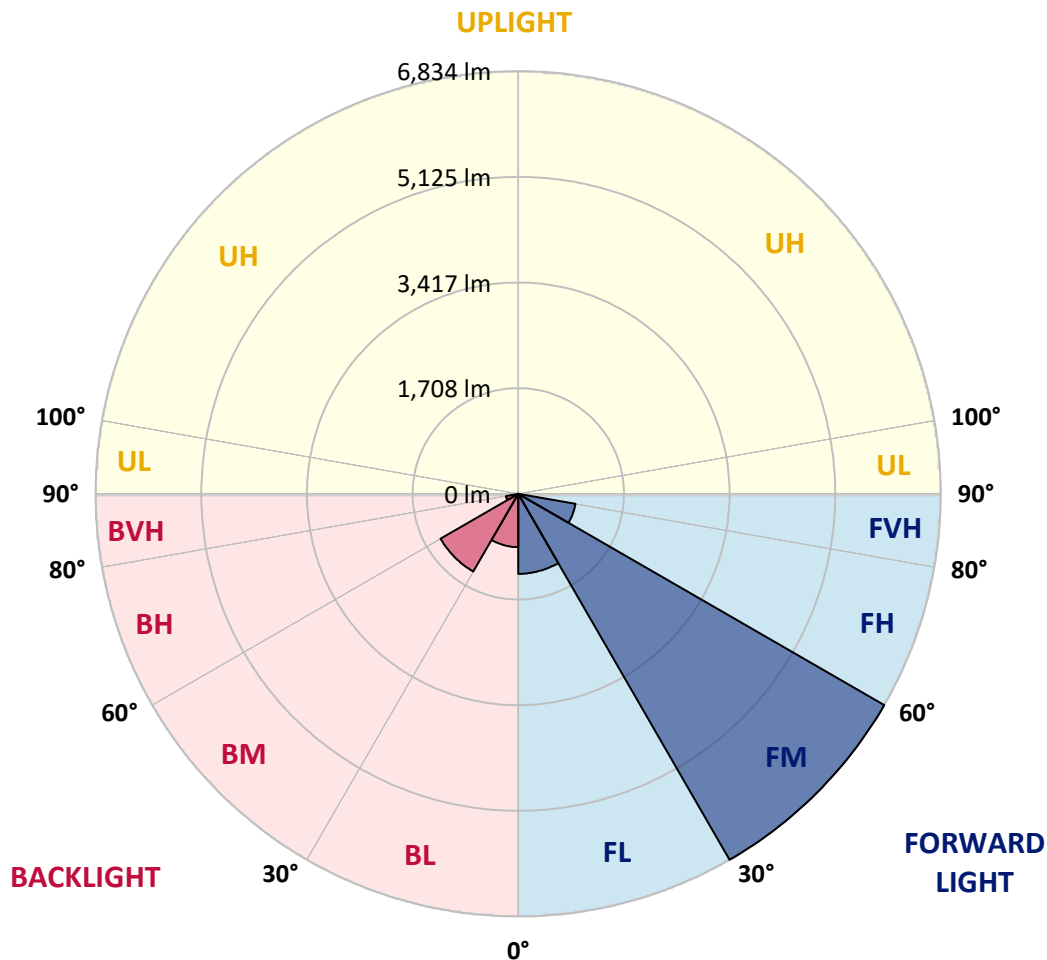


REPORT NUMBER: P651311
 CATALOG NUMBER: GALN-SA3D-840-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.1	11.2			
FM (30°-60°)	6833.7	58.9			
FH (60°-80°)	939.0	8.1			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	862.1	7.4	B2/1000		
BM (30°-60°)	1450.9	12.5	B2/2500		
BH (60°-80°)	200.4	1.7	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P651311

CATALOG NUMBER: GALN-SA3D-840-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3
2.5°	2255.4	2244.8	2244.8	2228.0	2247.0	2238.5	2244.8	2223.7	2244.8	2213.2	2238.5
5°	2266.0	2268.1	2259.6	2270.2	2270.2	2282.8	2261.7	2280.7	2291.3	2268.1	2257.5
7.5°	2320.8	2325.1	2323.0	2314.5	2331.4	2329.3	2327.2	2312.4	2316.6	2308.2	2295.5
10°	2428.6	2426.5	2437.0	2415.9	2403.2	2418.0	2422.2	2399.0	2382.1	2375.7	2335.6
12.5°	2584.8	2559.5	2544.7	2523.6	2529.9	2508.8	2546.8	2506.7	2498.3	2460.3	2420.1
15°	2711.6	2707.3	2709.4	2675.6	2637.6	2646.0	2646.0	2624.9	2612.3	2565.8	2508.8
17.5°	2971.3	2882.6	2901.6	2859.4	2827.7	2825.6	2806.6	2810.8	2777.0	2679.8	2593.3
20°	3174.0	3136.0	3106.4	3034.7	2986.1	3000.9	2992.4	2971.3	2960.7	2834.0	2711.6
22.5°	3355.7	3368.3	3319.8	3300.8	3233.1	3239.4	3256.4	3237.3	3157.1	3026.2	2844.6
25°	3611.2	3596.4	3530.9	3507.6	3444.3	3467.5	3533.0	3518.2	3467.5	3231.0	2948.0
27.5°	3913.2	3862.5	3875.2	3769.5	3708.3	3773.7	3851.9	3925.8	3782.2	3471.8	3070.6
30°	4126.5	4073.6	4069.4	4065.2	4050.4	4126.5	4217.3	4284.8	4168.7	3712.5	3273.3
32.5°	4232.0	4244.7	4280.6	4267.9	4396.7	4553.0	4648.0	4745.2	4599.5	4105.3	3541.5
35°	4512.9	4432.7	4512.9	4521.3	4654.3	4986.0	5106.3	5338.6	5302.7	4660.7	3868.8
37.5°	4677.6	4671.3	4681.8	4762.1	4890.9	5300.6	5471.6	5651.2	5583.6	4994.4	4276.4
40°	4950.0	4966.9	4964.8	5026.1	5167.5	5537.1	5606.8	5752.5	5758.8	5456.8	4876.1
42.5°	5387.2	5319.6	5275.3	5338.6	5537.1	5741.9	5881.4	5851.8	6060.8	6018.6	5646.9
45°	5779.9	5820.1	5754.6	5860.3	5932.0	6041.8	6037.6	6101.0	6367.0	6567.7	6227.7
47.5°	6147.5	6172.8	6204.5	6276.2	6432.5	6449.4	6413.5	6386.0	6753.5	6960.5	6677.5
50°	6367.0	6390.3	6538.1	6666.9	6958.3	6996.4	7017.5	6947.8	7196.9	7220.2	7101.9
52.5°	6307.9	6333.2	6540.2	6964.7	7429.3	7777.7	7714.4	7596.1	7581.4	7672.1	7494.7
55°	5784.2	5760.9	6046.0	6707.1	7577.1	8413.4	8421.9	8297.2	8058.6	7997.3	7435.6
56°	5338.6	5247.8	5611.0	6409.3	7387.0	8358.4	8453.5	8320.4	8096.6	7822.1	7070.3
57.5°	4373.5	4460.1	4821.2	5482.2	6730.3	7963.6	8018.4	7986.8	7817.9	7357.5	6221.3
60°	2411.7	2563.7	2882.6	3691.4	4791.7	6111.5	6155.9	6413.5	6445.2	5634.3	4280.6
62.5°	1024.3	1007.3	1338.9	1934.4	2728.5	3689.3	3771.6	4035.6	4084.2	3247.9	2147.7
65°	416.0	439.3	606.1	973.5	1442.3	1681.0	1797.1	1883.8	2044.2	1341.0	791.9
67.5°	274.5	272.4	356.9	555.4	777.2	749.7	749.7	791.9	732.8	547.0	342.1
70°	196.4	202.8	255.5	384.3	483.6	359.0	344.2	329.4	373.8	361.1	276.6
72.5°	128.8	137.3	171.1	230.2	251.3	196.4	196.4	236.5	308.3	291.4	226.0
75°	84.4	86.6	105.6	133.0	124.6	101.3	111.9	158.4	223.9	215.4	160.5
77.5°	57.0	59.1	71.8	86.6	69.7	57.0	61.2	80.2	109.8	109.8	84.4
80°	21.1	23.2	29.6	27.4	31.7	40.1	44.3	54.9	65.4	65.4	57.0
82.5°	0.0	2.1	6.3	14.8	23.2	31.7	35.9	42.2	48.6	54.9	52.8
85°	0.0	2.1	6.3	10.6	16.9	19.0	21.1	14.8	12.7	12.7	10.6
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	2.1	2.1
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: P651311

CATALOG NUMBER: GALN-SA3D-840-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3
2.5°	2215.3	2213.2	2213.2	2206.8	2219.5	2213.2	2217.4	2215.3	2187.8	2209.0	2194.2
5°	2238.5	2253.3	2230.1	2225.8	2209.0	2215.3	2215.3	2194.2	2213.2	2211.1	2206.8
7.5°	2297.6	2272.3	2247.0	2221.6	2217.4	2211.1	2187.8	2179.4	2194.2	2177.3	2202.6
10°	2323.0	2327.2	2289.2	2255.4	2223.7	2179.4	2147.7	2128.7	2105.4	2130.8	2145.6
12.5°	2439.2	2396.8	2331.4	2278.6	2171.0	2126.6	2094.9	2086.4	2126.6	2135.0	2120.2
15°	2479.3	2472.9	2388.4	2270.2	2158.3	2105.4	2111.8	2094.9	2099.1	2078.0	2082.2
17.5°	2561.6	2489.8	2390.5	2242.7	2156.2	2143.5	2105.4	2037.9	1999.9	1983.0	1997.7
20°	2652.4	2582.7	2439.2	2253.3	2175.2	2141.4	2016.7	1934.4	1856.3	1814.0	1816.1
22.5°	2732.7	2646.0	2418.0	2257.5	2192.1	2052.6	1902.8	1740.1	1643.0	1577.5	1579.7
25°	2829.8	2707.3	2426.5	2266.0	2147.7	1911.2	1695.8	1537.3	1421.2	1376.9	1391.7
27.5°	2884.7	2745.4	2472.9	2285.0	2031.5	1710.5	1478.2	1330.5	1262.8	1241.7	1239.6
30°	3049.5	2829.8	2529.9	2247.0	1837.2	1495.1	1279.7	1188.9	1123.5	1104.5	1108.7
32.5°	3294.4	2984.0	2603.8	2147.7	1638.8	1303.0	1150.9	1083.4	1022.1	986.2	982.0
35°	3499.2	3247.9	2681.9	1993.5	1408.6	1155.1	1060.1	975.6	882.7	842.6	832.1
37.5°	3889.9	3545.7	2665.0	1761.2	1188.9	1045.4	962.9	859.5	779.3	724.4	718.0
40°	4409.4	3894.2	2582.7	1478.2	1026.4	948.2	859.5	760.3	661.0	614.5	610.3
42.5°	5040.9	4320.7	2432.8	1191.0	863.7	851.1	770.8	656.7	568.1	534.3	536.4
45°	5554.0	4686.1	2280.7	956.6	743.4	756.1	686.3	578.6	517.4	490.0	490.0
47.5°	6010.1	4933.1	2116.0	789.8	631.4	661.0	599.7	536.4	483.6	462.5	458.3
50°	6449.4	5184.4	1951.3	639.8	538.5	568.1	561.7	511.1	468.9	443.5	445.6
52.5°	6724.0	5224.5	1742.2	523.7	471.0	504.7	525.9	479.4	432.9	418.1	413.9
55°	6388.2	4707.2	1351.6	430.8	399.1	443.5	483.6	430.8	394.9	369.5	367.4
56°	5936.2	4208.8	1129.8	397.0	378.0	426.6	468.9	411.8	371.6	356.9	346.3
57.5°	5026.1	3444.3	834.2	352.6	350.5	397.0	445.6	392.8	346.3	333.6	333.6
60°	3133.9	1938.6	504.7	295.6	304.1	352.6	401.2	350.5	308.3	308.3	314.6
62.5°	1427.6	806.7	306.2	251.3	261.9	304.1	356.9	316.8	293.5	316.8	321.0
65°	485.7	348.4	221.8	200.6	207.0	251.3	306.2	321.0	318.9	333.6	342.1
67.5°	272.4	223.9	185.9	166.9	162.6	185.9	251.3	321.0	308.3	302.0	306.2
70°	230.2	190.1	164.8	147.8	141.5	150.0	194.3	242.9	217.5	211.2	207.0
72.5°	185.9	158.4	143.6	133.0	114.0	97.1	88.7	92.9	103.4	109.8	120.3
75°	130.9	120.3	120.3	107.7	82.3	61.2	48.6	40.1	27.4	19.0	21.1
77.5°	73.9	73.9	76.0	65.4	52.8	40.1	29.6	21.1	10.6	4.2	2.1
80°	50.7	54.9	59.1	52.8	44.3	35.9	25.3	14.8	6.3	0.0	0.0
82.5°	50.7	57.0	61.2	52.8	44.3	33.8	25.3	14.8	6.3	2.1	0.0
85°	10.6	12.7	14.8	16.9	25.3	25.3	19.0	12.7	6.3	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0
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)