

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: P451966

Luminaire Tested: **GALN-SA2D-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11415 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

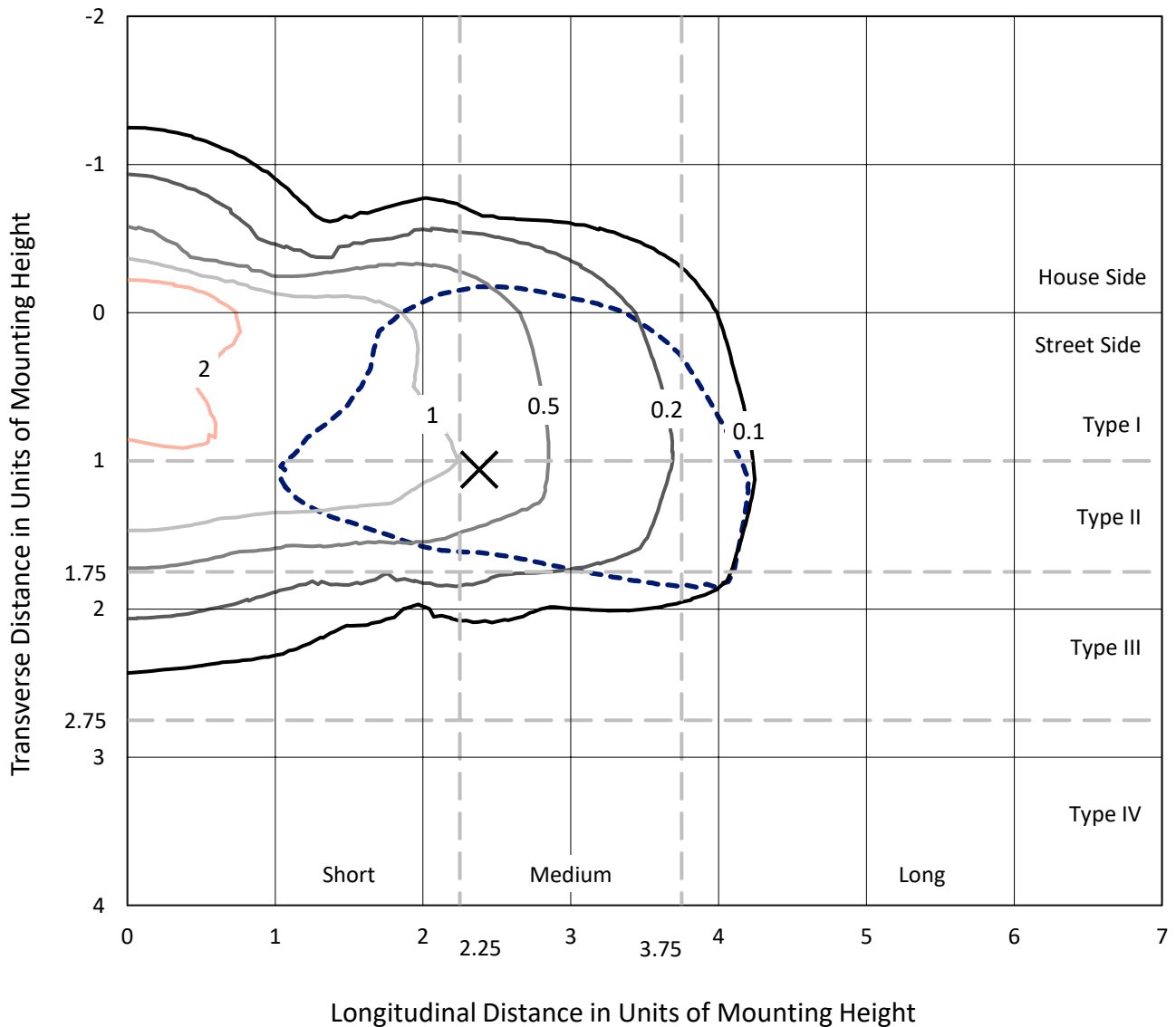
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

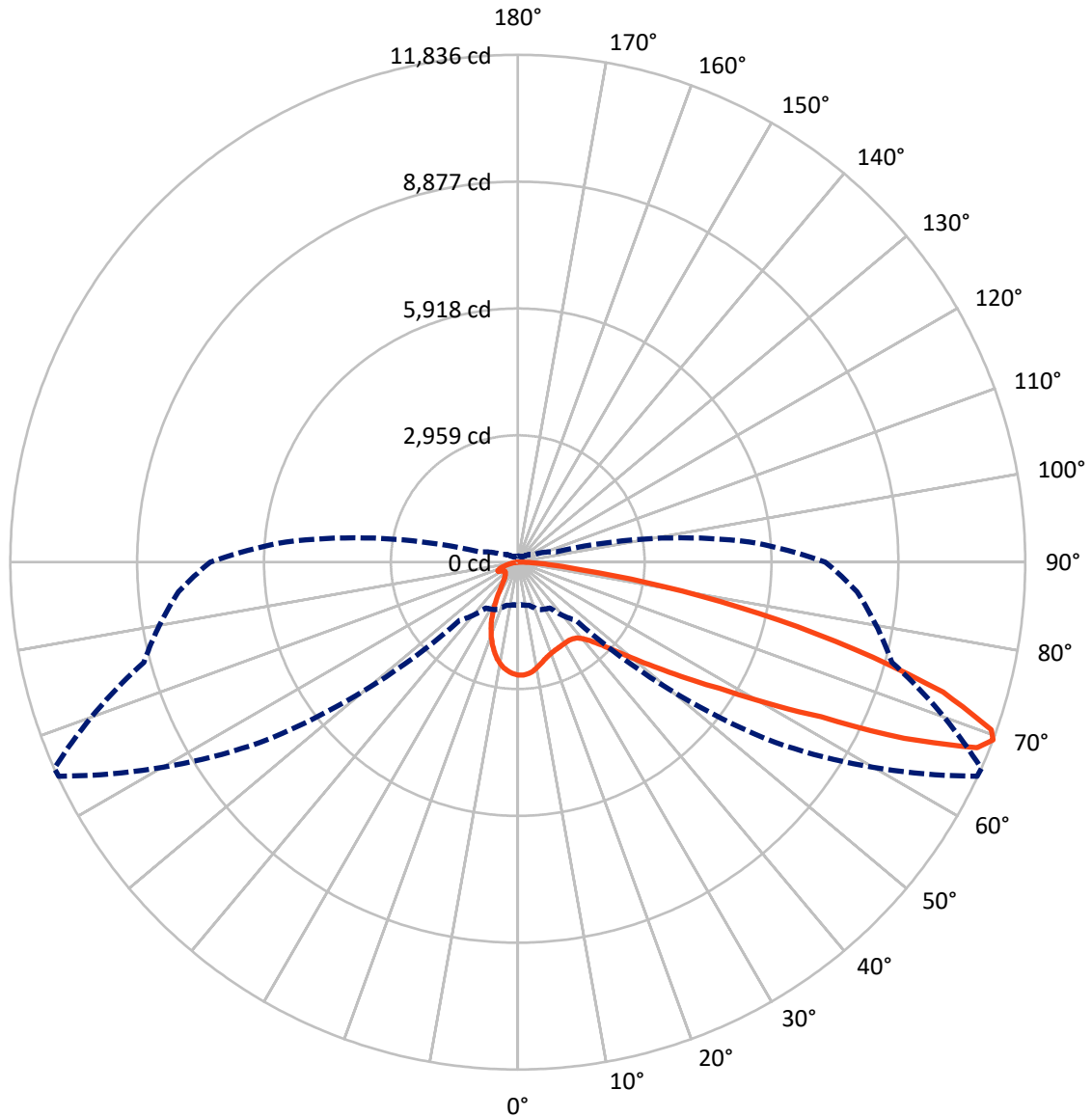
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2146.7	0.0	2146.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9268.3	0.0	9268.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	11415.0	0.0	11415.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	2.0
10°-20°	543.0	4.8
20°-30°	739.2	6.5
30°-40°	993.3	8.7
40°-50°	1483.1	13.0
50°-60°	2359.2	20.7
60°-70°	2901.7	25.4
70°-80°	1887.9	16.5
80°-90°	278.8	2.4
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°	11415.0	100.0
0°-180°	11415.0	100.0



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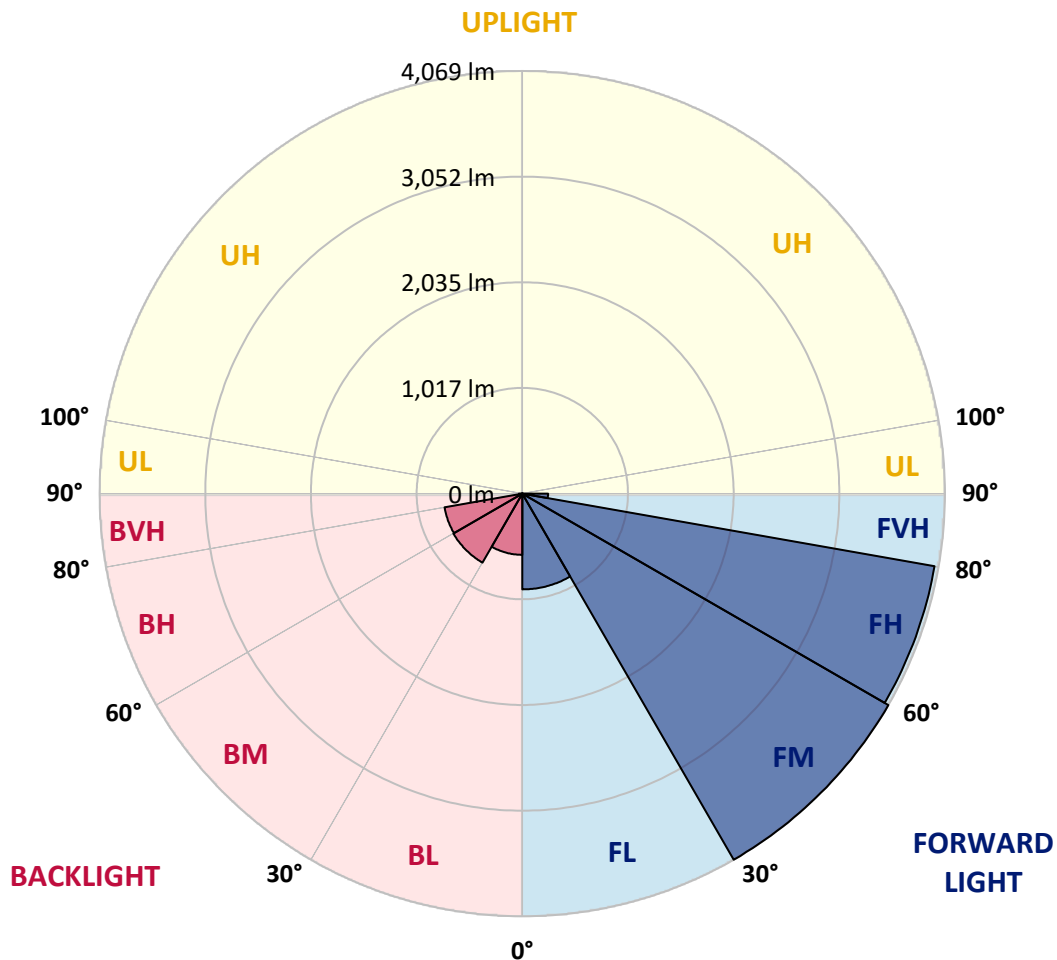
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.7	8.1			
FM	(30°-60°)	4069.1	35.6			
FH	(60°-80°)	4029.6	35.3			G2/5000
FVH	(80°-90°)	247.9	2.2			G3/500
BL	(0°-30°)	589.3	5.2	B2/1000		
BM	(30°-60°)	766.5	6.7	B1/1000		
BH	(60°-80°)	760.0	6.7	B2/1000		G2/1000
BVH	(80°-90°)	30.9	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2543.7	2553.9	2565.2	2577.9	2601.9	2615.2	2624.7	2635.4	2636.7	2642.4	2637.9
5°	2356.0	2368.0	2385.1	2409.1	2445.1	2501.4	2559.6	2607.0	2612.7	2639.2	2646.8
7.5°	2199.2	2206.2	2220.1	2258.7	2309.9	2372.4	2457.1	2553.2	2567.1	2630.4	2652.5
10°	2071.5	2078.5	2094.9	2134.8	2185.3	2263.7	2356.6	2483.1	2494.4	2603.2	2653.7
12.5°	1976.1	1982.4	2000.1	2039.3	2097.5	2170.8	2273.2	2407.2	2423.6	2567.1	2641.7
15°	1903.4	1915.4	1929.9	1962.2	2023.5	2094.3	2193.5	2337.7	2350.9	2529.2	2633.5
17.5°	1872.4	1878.1	1888.2	1917.9	1962.8	2032.3	2132.2	2283.3	2299.1	2502.7	2631.6
20°	1873.7	1879.4	1881.3	1897.7	1929.9	1990.0	2088.6	2240.3	2259.3	2479.3	2634.8
22.5°	1916.7	1917.3	1910.3	1904.7	1917.3	1967.2	2057.6	2208.1	2230.2	2469.2	2637.3
25°	1983.0	1994.4	1984.3	1957.8	1934.4	1958.4	2045.6	2190.4	2211.2	2454.6	2634.1
27.5°	2090.5	2092.4	2084.2	2048.1	1987.5	1969.8	2040.6	2177.1	2194.8	2443.9	2618.3
30°	2234.6	2228.9	2221.4	2181.5	2086.1	2013.4	2051.3	2165.1	2183.4	2428.1	2599.4
32.5°	2380.7	2398.4	2391.4	2344.6	2220.7	2098.1	2086.1	2163.8	2179.0	2416.1	2578.5
35°	2535.5	2543.7	2576.6	2552.6	2425.5	2235.3	2151.2	2183.4	2195.4	2416.7	2564.0
37.5°	2656.9	2679.0	2756.1	2777.0	2657.5	2416.7	2256.8	2239.1	2244.1	2447.7	2569.7
40°	2803.6	2841.5	2940.7	3026.1	2947.7	2652.5	2436.3	2342.1	2348.4	2522.3	2607.0
42.5°	2989.4	3016.0	3149.3	3265.0	3252.4	2964.1	2653.7	2510.9	2514.0	2670.8	2711.3
45°	3206.9	3244.8	3394.6	3568.5	3598.2	3316.9	2967.9	2766.3	2764.4	2901.5	2906.0
47.5°	3485.0	3508.4	3657.0	3846.6	3966.7	3760.0	3349.1	3132.9	3112.7	3237.8	3201.8
50°	3741.0	3777.7	3890.2	4097.6	4396.6	4279.0	3850.4	3608.3	3560.9	3677.8	3617.1
52.5°	3848.5	3887.1	3981.9	4239.2	4765.1	4950.3	4487.0	4175.3	4096.3	4186.1	4163.9
55°	3662.0	3711.9	3800.4	4113.4	4926.9	5724.7	5345.4	4830.8	4773.3	4734.8	4741.1
57.5°	3160.7	3208.1	3327.6	3672.8	4733.5	6286.7	6571.1	5673.5	5550.2	5372.6	5402.9
60°	2405.9	2435.7	2497.6	2880.0	4160.1	6432.7	7963.1	6738.7	6660.3	6007.9	6029.4
62.5°	1708.7	1742.2	1785.2	1976.1	3045.7	6021.2	9052.9	8226.1	7946.1	6666.0	6645.1
65°	1387.6	1364.8	1416.6	1505.8	1787.1	4666.5	9298.2	10290.7	9905.1	7532.6	7243.1
67.5°	1141.0	1117.0	1168.2	1326.9	1359.1	2708.7	8414.5	11630.8	11553.7	8475.2	7850.6
69°	1010.2	997.5	1042.4	1223.2	1304.7	1923.6	7330.3	11817.3	11835.6	9030.8	7944.2
70°	910.3	915.3	959.0	1170.7	1280.1	1586.0	6265.2	11560.0	11715.5	9308.3	7843.0
72.5°	670.1	680.8	741.5	969.7	1256.7	1345.8	3728.4	10097.2	10372.2	9324.8	7174.8
75°	468.4	463.4	517.1	730.1	1187.2	1333.8	2189.7	7808.9	8120.5	8059.8	6028.8
77.5°	306.6	314.8	357.8	515.8	998.8	1323.7	1427.4	5540.1	5742.4	5390.3	3565.9
80°	216.2	215.6	239.6	352.1	740.9	1271.9	1168.8	3492.0	3440.8	2118.3	1057.6
82.5°	123.9	132.8	160.6	247.8	495.6	1119.5	1075.3	1670.1	1524.7	603.7	357.2
85°	68.9	72.1	95.5	149.8	289.5	843.3	938.7	759.8	716.9	252.2	153.6
87.5°	22.1	24.0	39.8	75.9	131.5	398.3	531.6	350.8	323.7	91.0	62.0
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°	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2639.8	2647.4	2627.2	2607.6	2589.9	2565.2	2543.1	2524.8	2512.1	2510.2	2503.9
5°	2648.7	2649.3	2610.8	2558.9	2508.3	2452.7	2395.2	2354.1	2315.5	2294.1	2283.3
7.5°	2655.0	2649.3	2579.8	2495.7	2398.4	2297.2	2196.1	2115.2	2052.6	2027.9	2037.4
10°	2652.5	2634.8	2533.0	2398.4	2256.8	2105.7	1960.3	1846.5	1742.2	1688.5	1689.7
12.5°	2638.6	2609.5	2463.5	2289.0	2081.0	1878.7	1656.2	1502.6	1381.9	1310.4	1288.3
15°	2626.6	2576.0	2381.9	2140.4	1881.9	1593.0	1321.8	1132.2	1031.0	974.8	974.1
17.5°	2613.9	2543.7	2292.8	1983.0	1653.1	1281.4	996.9	852.1	804.7	810.4	800.9
20°	2600.6	2505.8	2199.9	1807.9	1374.3	955.8	746.6	687.8	701.0	727.0	730.8
22.5°	2585.5	2465.4	2100.0	1615.1	1081.0	719.4	605.6	596.7	630.9	671.3	677.0
25°	2562.1	2414.8	1974.2	1413.5	833.8	579.7	530.4	536.7	570.2	604.3	608.1
27.5°	2529.2	2352.2	1847.1	1161.9	626.5	497.5	484.9	493.1	509.5	530.4	535.4
30°	2485.0	2281.4	1701.1	944.4	501.9	456.4	451.4	455.8	465.3	474.1	476.6
32.5°	2440.7	2213.1	1553.8	723.2	447.6	429.2	424.2	424.2	424.2	425.4	426.1
35°	2399.6	2148.7	1395.8	563.2	419.1	407.7	400.8	393.2	391.9	387.5	387.5
37.5°	2376.9	2089.9	1227.6	471.6	398.3	390.0	380.6	367.9	361.0	361.6	360.3
40°	2381.3	2051.3	1074.6	419.7	381.2	372.3	357.8	343.3	338.8	338.8	337.6
42.5°	2431.2	2038.7	928.0	392.6	364.7	354.6	336.3	323.0	320.5	319.9	321.1
45°	2546.3	2069.6	796.5	374.9	350.8	335.7	317.3	305.3	302.8	302.8	302.2
47.5°	2770.7	2170.2	702.3	363.5	340.7	321.1	302.2	290.2	285.7	284.5	284.5
50°	3119.6	2388.2	632.1	353.4	328.1	307.9	288.3	274.4	267.4	266.8	266.1
52.5°	3604.5	2728.3	605.0	345.8	314.2	293.9	272.5	259.2	250.3	248.4	247.2
55°	4171.5	3203.1	642.3	340.1	299.6	278.1	256.0	242.1	233.9	230.1	229.5
57.5°	4828.3	3773.3	783.9	332.5	286.4	261.1	239.6	225.7	216.8	212.4	211.1
60°	5418.1	4359.3	1031.0	328.1	275.0	242.7	220.6	208.0	199.8	195.3	194.7
62.5°	6066.1	4918.1	1326.2	340.1	269.9	225.0	202.9	191.5	184.6	180.2	180.2
65°	6758.3	5477.5	1521.6	380.6	277.5	211.1	184.0	174.5	168.2	165.0	164.4
67.5°	7224.8	5671.0	1253.5	422.3	296.5	196.0	165.6	158.0	154.2	151.1	151.1
69°	7174.2	5426.3	924.8	433.0	302.2	188.4	155.5	149.8	144.8	143.5	142.2
70°	7014.3	5147.5	775.0	426.1	297.7	181.4	149.2	142.2	137.8	136.5	135.9
72.5°	6247.5	4464.2	577.1	370.4	253.5	157.4	132.1	125.8	122.0	120.1	120.1
75°	5190.5	3648.7	450.7	294.6	198.5	132.8	113.2	108.1	104.9	103.7	103.0
77.5°	2909.1	2037.4	323.7	230.7	150.5	107.5	94.8	90.4	87.2	86.0	86.0
80°	810.4	582.2	190.3	152.3	102.4	81.5	75.2	72.1	67.6	64.5	66.4
82.5°	305.3	252.2	108.7	91.7	65.1	54.4	52.5	49.9	48.0	43.6	43.6
85°	148.6	122.6	69.5	48.7	36.0	28.4	27.2	25.9	24.7	21.5	22.1
87.5°	51.2	54.4	30.3	17.7	10.7	7.0	5.7	3.2	3.2	3.2	3.2
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)