

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: P527036

Luminaire Tested: **GALN-SA2A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7261 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

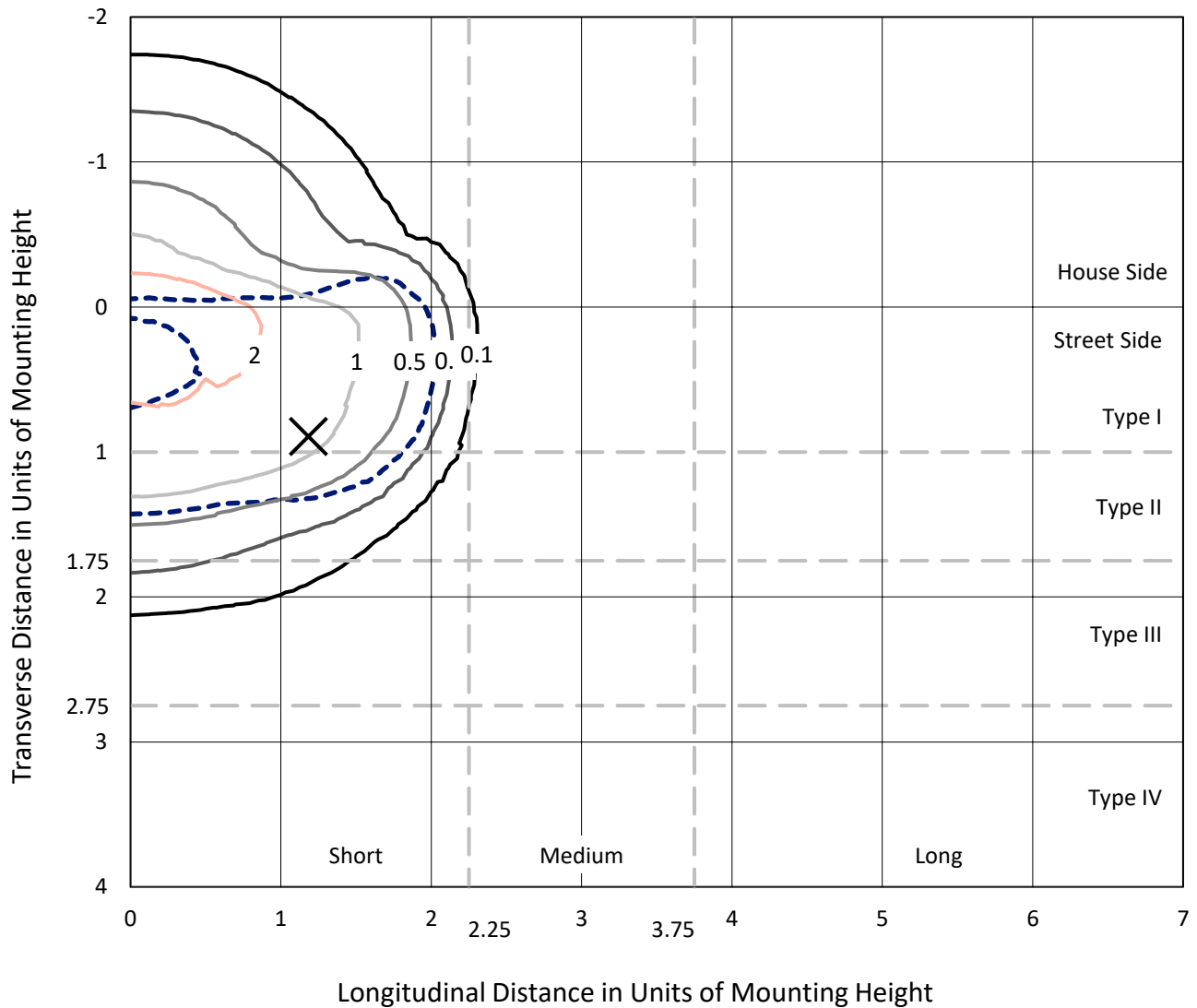
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

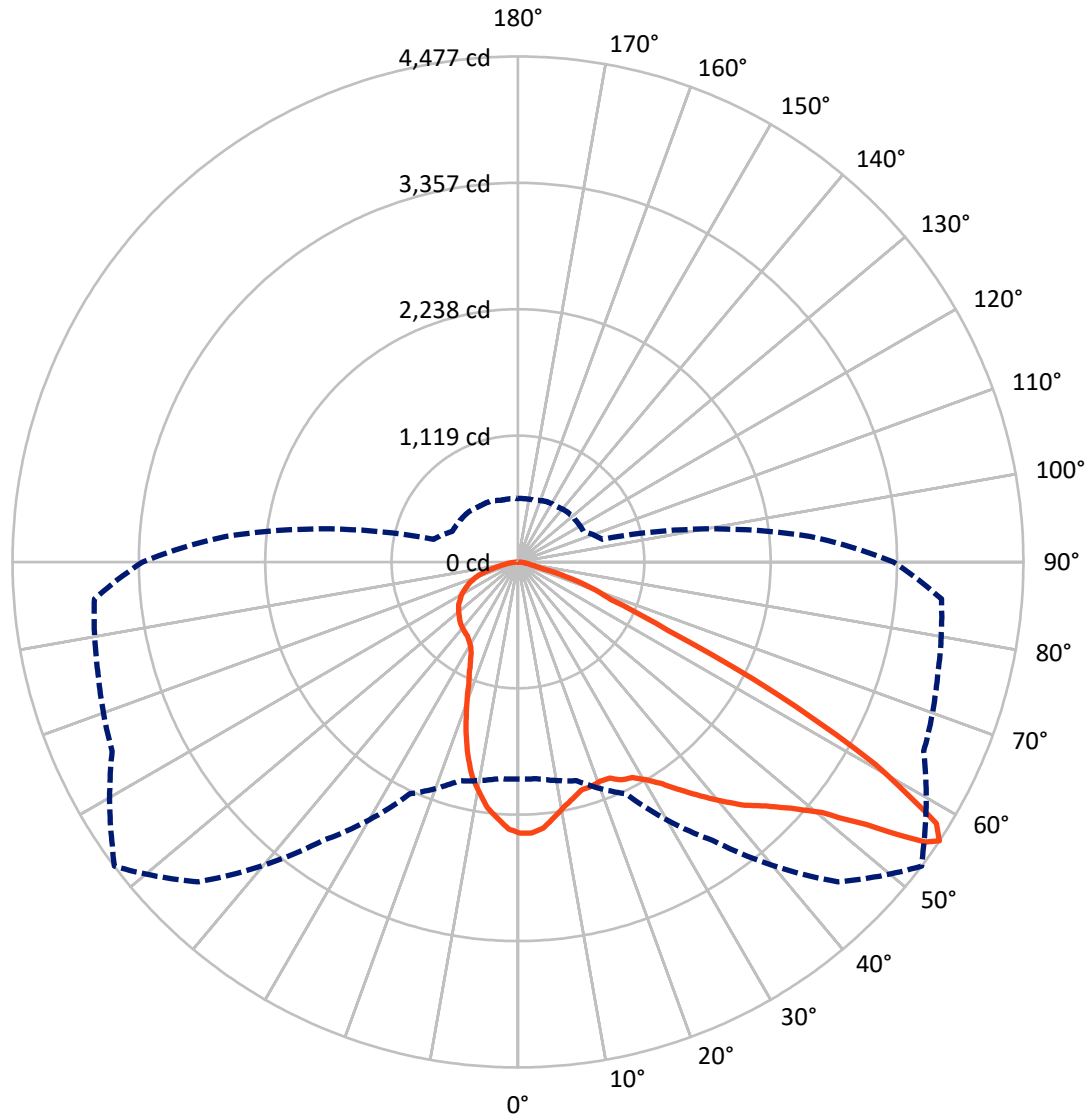
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2118.9	0.0	2118.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	5142.1	0.0	5142.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	7261.0	0.0	7261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.9
10°-20°	531.1	7.3
20°-30°	783.2	10.8
30°-40°	1119.1	15.4
40°-50°	1540.2	21.2
50°-60°	1820.2	25.1
60°-70°	970.0	13.4
70°-80°	246.1	3.4
80°-90°	38.4	0.5
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°	7261.0	100.0
0°-180°	7261.0	100.0

Coefficient of Utilization



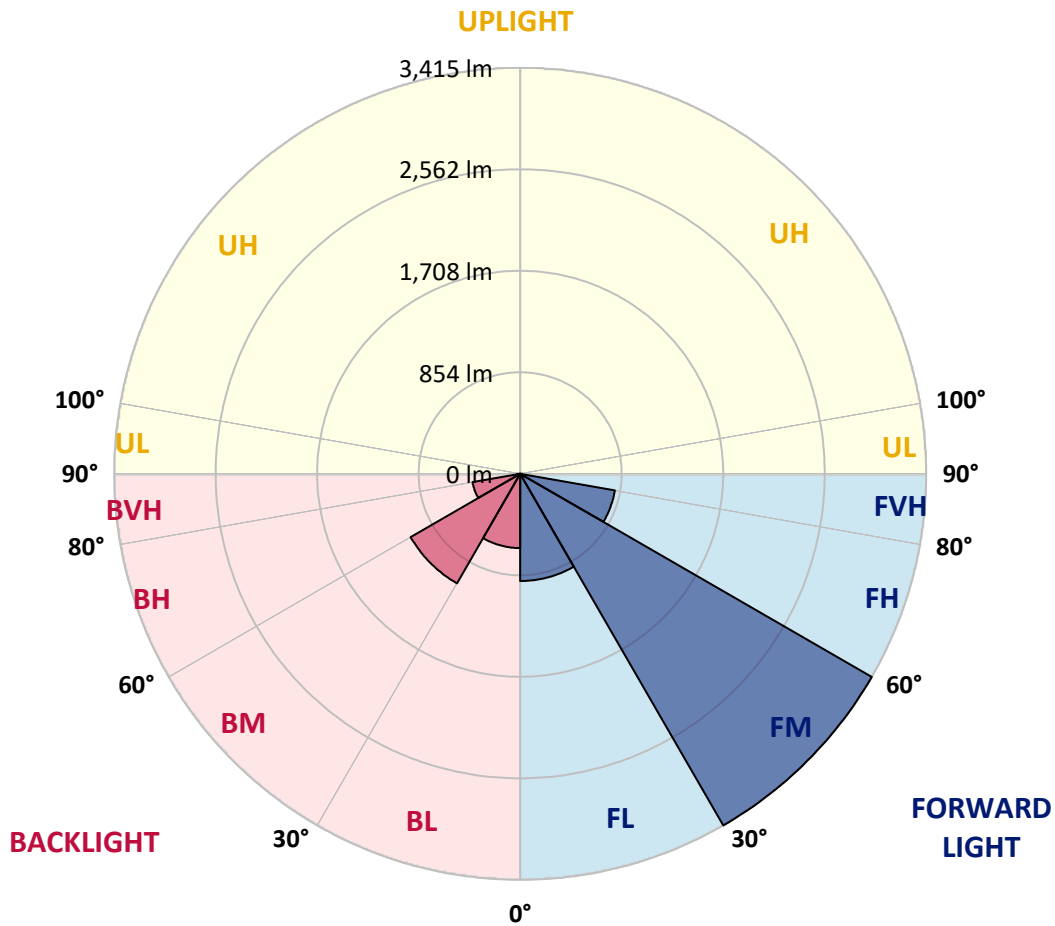
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.1	12.4			
FM (30°-60°)	3415.4	47.0			
FH (60°-80°)	809.1	11.1			G1/1800
FVH (80°-90°)	15.4	0.2			G1/100
BL (0°-30°)	625.0	8.6	B2/1000		
BM (30°-60°)	1064.0	14.7	B2/2500		
BH (60°-80°)	407.0	5.6	B1/500		G1/500
BVH (80°-90°)	23.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2
2.5°	2372.4	2351.9	2364.0	2359.4	2397.6	2408.7	2403.2	2407.8	2429.2	2419.0	2397.6
5°	2216.9	2245.7	2251.3	2265.3	2287.7	2331.4	2365.9	2375.2	2385.5	2433.0	2428.3
7.5°	2075.3	2094.8	2084.6	2125.6	2174.0	2244.8	2286.7	2294.2	2388.3	2414.3	2433.9
10°	1985.9	1966.3	2012.9	2024.1	2079.0	2160.0	2210.3	2241.1	2326.8	2430.2	2442.3
12.5°	1903.0	1896.4	1924.4	1956.1	2017.5	2101.4	2152.6	2164.7	2297.0	2406.0	2462.8
15°	1841.5	1834.0	1862.0	1885.3	1957.0	2031.5	2096.7	2131.2	2264.4	2392.0	2445.1
17.5°	1793.1	1792.1	1808.0	1849.9	1923.5	1985.9	2091.1	2093.0	2247.6	2413.4	2460.0
20°	1790.3	1789.3	1792.1	1838.7	1905.8	1982.1	2073.4	2090.2	2247.6	2398.5	2460.9
22.5°	1813.5	1798.6	1815.4	1845.2	1893.7	1988.7	2079.9	2117.2	2301.6	2472.1	2502.8
25°	1850.8	1854.5	1863.8	1874.1	1902.0	2003.6	2137.7	2168.4	2365.0	2535.4	2560.6
27.5°	1918.8	1916.9	1920.7	1926.3	1950.5	2017.5	2161.0	2240.2	2497.2	2648.1	2623.0
30°	2018.5	2011.9	2026.8	2046.4	2024.1	2062.2	2238.3	2297.9	2620.2	2761.8	2692.8
32.5°	2108.8	2133.0	2161.0	2169.4	2142.3	2149.8	2340.7	2401.3	2722.6	2901.5	2778.5
35°	2221.5	2241.1	2278.3	2304.4	2299.8	2277.4	2480.5	2560.6	2870.7	3003.9	2868.9
37.5°	2331.4	2354.7	2416.2	2493.5	2450.7	2440.4	2629.5	2695.6	2916.4	3058.9	2935.0
40°	2508.4	2507.5	2613.7	2653.7	2691.9	2674.2	2784.1	2806.5	2940.6	3046.8	2936.9
42.5°	2716.1	2703.1	2811.1	2873.5	2922.9	2924.8	2945.3	2937.8	2951.8	2985.3	2917.3
45°	2913.6	2941.5	3050.5	3162.3	3211.7	3217.2	3081.3	3067.3	2971.3	2967.6	2880.1
47.5°	3154.8	3161.4	3250.8	3398.0	3512.5	3473.4	3257.3	3226.6	3057.0	3085.9	2942.5
50°	3168.8	3217.2	3297.4	3470.6	3822.7	3812.4	3485.5	3427.8	3194.9	3253.6	3116.7
52.5°	2876.3	2865.2	2960.2	3243.3	3799.4	4149.6	3863.7	3725.8	3491.1	3446.4	3398.9
55°	2191.7	2217.8	2301.6	2587.6	3299.2	4154.3	4378.8	4266.1	3807.8	3731.4	3676.5
56°	1922.5	1926.3	2005.4	2266.2	3010.5	4006.2	4476.6	4385.3	3965.2	3848.8	3764.9
57.5°	1593.7	1572.3	1613.3	1755.8	2541.0	3693.2	4369.5	4458.9	4149.6	3975.5	3859.0
60°	1254.7	1250.0	1233.2	1259.3	1605.8	2782.3	3637.3	3838.5	4131.0	3856.2	3696.0
62.5°	1024.6	1001.3	1034.8	1072.1	1115.9	1726.0	2555.9	2674.2	3279.7	3078.5	2776.7
65°	794.5	783.4	825.3	946.4	972.4	1096.3	1455.9	1547.1	1936.5	1902.0	1674.8
67.5°	546.8	548.6	585.0	769.4	901.6	890.5	891.4	938.9	1010.6	750.8	653.9
70°	346.5	345.6	365.1	495.5	725.6	733.1	695.8	681.8	646.4	391.2	414.5
72.5°	222.6	216.1	226.3	273.8	375.4	434.1	447.1	455.5	374.4	307.4	333.5
75°	125.7	119.2	115.5	127.6	148.1	171.4	188.2	193.7	217.0	232.9	246.8
77.5°	38.2	34.5	41.9	55.9	73.6	98.7	120.2	123.9	146.2	164.9	178.8
80°	16.8	18.6	26.1	37.3	52.2	69.9	84.8	90.4	105.3	119.2	123.0
82.5°	10.2	11.2	17.7	25.1	36.3	49.4	60.5	62.4	77.3	88.5	91.3
85°	3.7	4.7	9.3	14.9	23.3	31.7	31.7	34.5	31.7	31.7	34.5
87.5°	0.0	0.0	0.9	1.9	1.9	2.8	3.7	3.7	4.7	5.6	6.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2	2402.2
2.5°	2408.7	2404.1	2396.6	2369.6	2366.8	2358.4	2311.9	2304.4	2311.9	2289.5	2291.4
5°	2404.1	2418.1	2362.2	2335.2	2284.9	2248.5	2206.6	2185.2	2147.0	2122.8	2149.8
7.5°	2424.6	2419.0	2349.1	2290.5	2215.0	2122.8	2049.2	2007.3	1940.2	1921.6	1935.6
10°	2417.1	2387.3	2305.4	2228.0	2085.5	2004.5	1885.3	1769.8	1706.4	1673.8	1669.2
12.5°	2406.9	2398.5	2261.6	2128.4	1978.4	1808.0	1640.3	1531.3	1427.9	1383.2	1389.7
15°	2419.0	2348.2	2179.6	2011.0	1811.7	1588.1	1407.4	1266.8	1195.1	1166.2	1166.2
17.5°	2413.4	2324.0	2140.5	1879.7	1627.3	1362.7	1164.3	1079.6	1049.8	1049.8	1058.1
20°	2416.2	2339.8	2061.3	1748.3	1409.3	1147.6	1003.2	972.4	985.5	990.1	994.8
22.5°	2432.0	2287.7	1984.0	1604.0	1207.2	981.8	911.0	911.9	935.2	960.3	955.7
25°	2451.6	2267.2	1889.9	1460.5	1052.5	900.7	878.4	875.6	893.3	906.3	908.2
27.5°	2434.8	2231.8	1794.0	1281.7	925.9	846.7	842.0	843.9	849.5	875.6	867.2
30°	2489.8	2242.0	1673.8	1131.7	856.0	829.0	823.4	820.6	829.0	836.4	829.9
32.5°	2557.8	2205.7	1584.4	987.3	821.5	816.0	804.8	801.1	805.7	798.3	802.0
35°	2587.6	2199.2	1468.0	884.0	794.5	789.9	783.4	782.4	783.4	776.8	771.2
37.5°	2604.4	2229.9	1334.8	836.4	777.8	782.4	767.5	765.7	748.9	752.6	755.4
40°	2633.2	2182.4	1226.7	790.8	767.5	758.2	745.2	742.4	731.2	724.7	731.2
42.5°	2591.3	2168.4	1120.5	771.2	752.6	742.4	733.1	717.2	713.5	707.9	704.2
45°	2557.8	2088.3	1025.5	747.0	734.9	729.3	711.6	694.9	680.9	686.5	678.1
47.5°	2582.9	2060.4	931.5	726.5	710.7	704.2	686.5	673.4	659.5	653.0	651.1
50°	2683.5	2112.5	852.3	711.6	690.2	686.5	663.2	648.3	635.3	630.6	632.5
52.5°	2923.8	2255.1	798.3	680.9	670.6	653.9	640.8	622.2	613.8	598.9	608.2
55°	3228.4	2487.0	784.3	652.0	646.4	631.5	613.8	599.9	584.0	571.9	569.1
56°	3326.2	2597.8	773.1	640.8	631.5	623.1	599.9	591.5	566.3	563.5	561.7
57.5°	3405.4	2695.6	775.0	619.4	610.1	602.7	588.7	568.2	551.4	541.2	545.8
60°	3226.6	2523.3	739.6	586.8	585.0	571.0	551.4	542.1	521.6	509.5	506.7
62.5°	2398.5	1712.9	599.9	544.9	544.0	529.1	506.7	496.5	492.7	476.0	476.0
65°	1381.3	1074.0	518.8	510.4	503.0	488.1	465.7	457.3	448.0	442.4	437.8
67.5°	589.6	557.0	471.3	470.4	462.0	443.4	421.0	408.0	395.9	384.7	390.3
70°	427.5	434.1	425.7	421.0	410.8	387.5	367.9	352.1	333.5	326.0	331.6
72.5°	339.0	353.0	365.1	366.1	354.0	326.9	305.5	284.1	263.6	253.4	258.0
75°	257.1	266.4	278.5	281.3	263.6	245.0	224.5	202.1	186.3	174.2	176.0
77.5°	185.4	183.5	194.7	192.8	184.4	171.4	152.8	132.3	114.6	103.4	104.3
80°	126.7	129.5	136.0	135.1	124.8	116.4	102.5	85.7	72.7	63.3	61.5
82.5°	88.5	93.1	98.7	94.1	85.7	77.3	67.1	55.0	44.7	37.3	35.4
85°	31.7	36.3	41.9	44.7	47.5	45.6	38.2	30.7	22.4	18.6	17.7
87.5°	6.5	7.5	8.4	8.4	8.4	7.5	6.5	6.5	5.6	2.8	2.8
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)