

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: P526830

Luminaire Tested: **GALN-SA1D-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6622 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

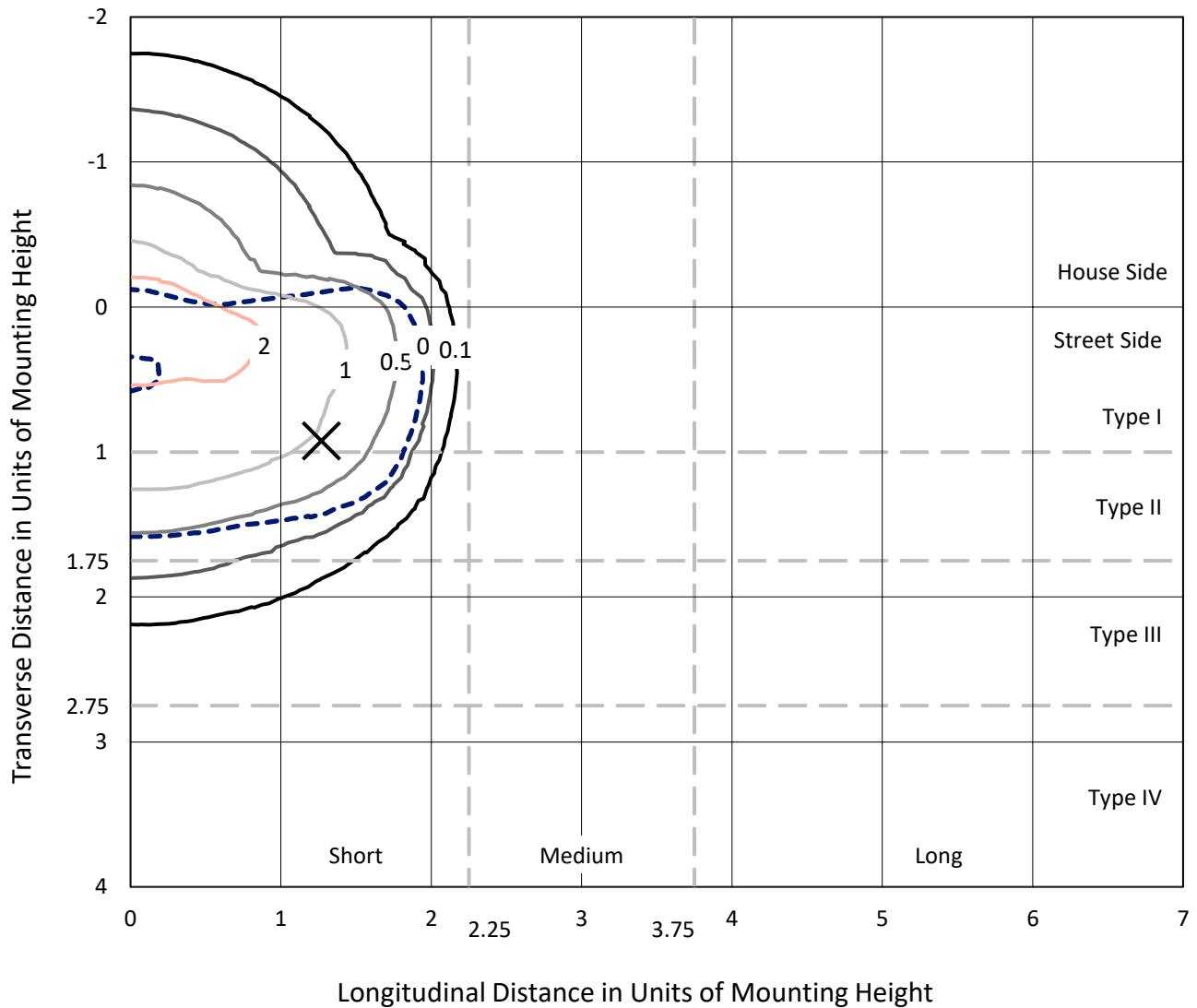
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

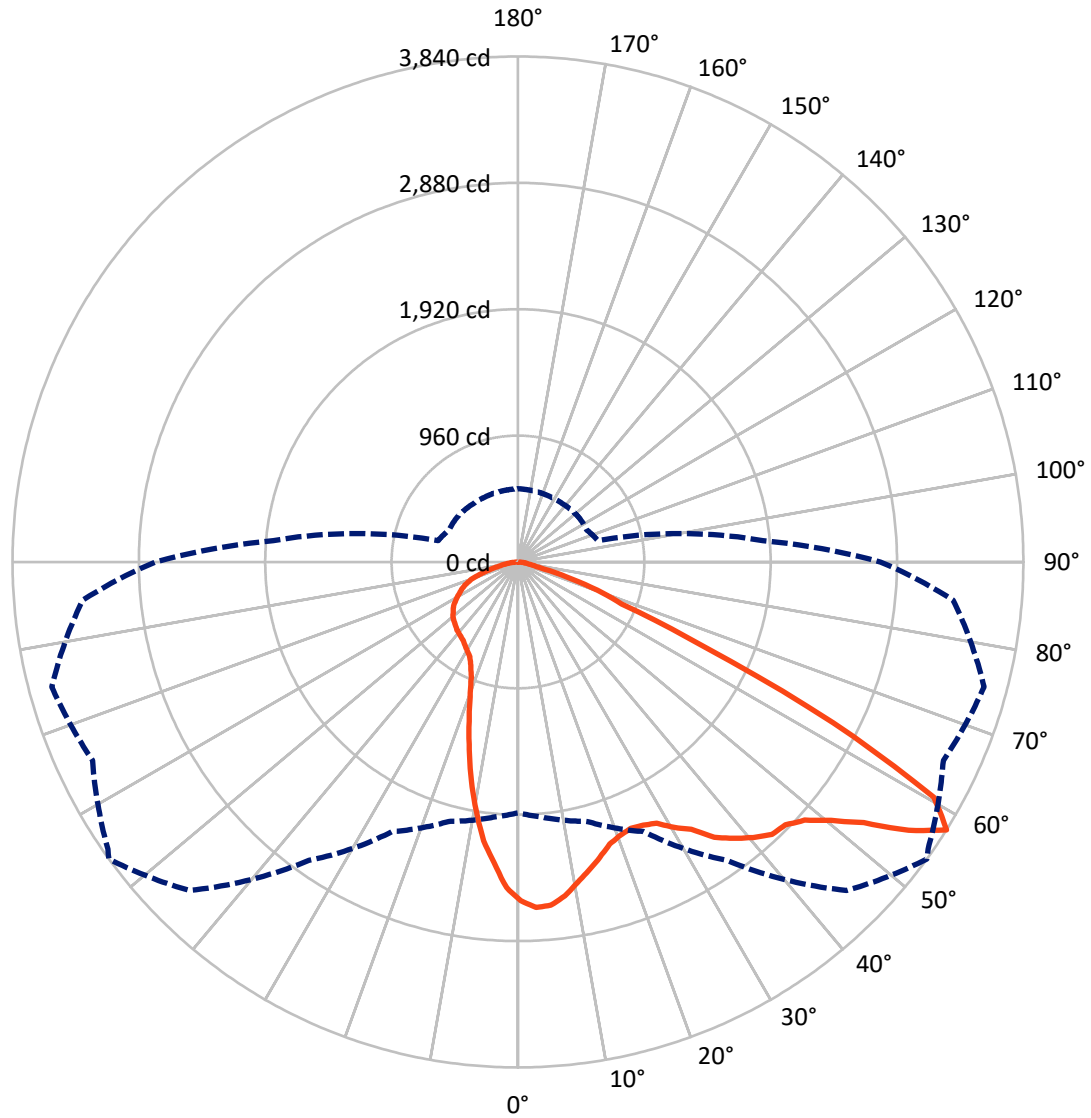
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1832.0	0.0	1832.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4790.0	0.0	4790.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	6622.0	0.0	6622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	3.4
10°-20°	514.0	7.8
20°-30°	722.1	10.9
30°-40°	1009.5	15.2
40°-50°	1366.7	20.6
50°-60°	1664.7	25.1
60°-70°	867.0	13.1
70°-80°	222.2	3.4
80°-90°	33.9	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°	6622.0	100.0
0°-180°	6622.0	100.0

Coefficient of Utilization

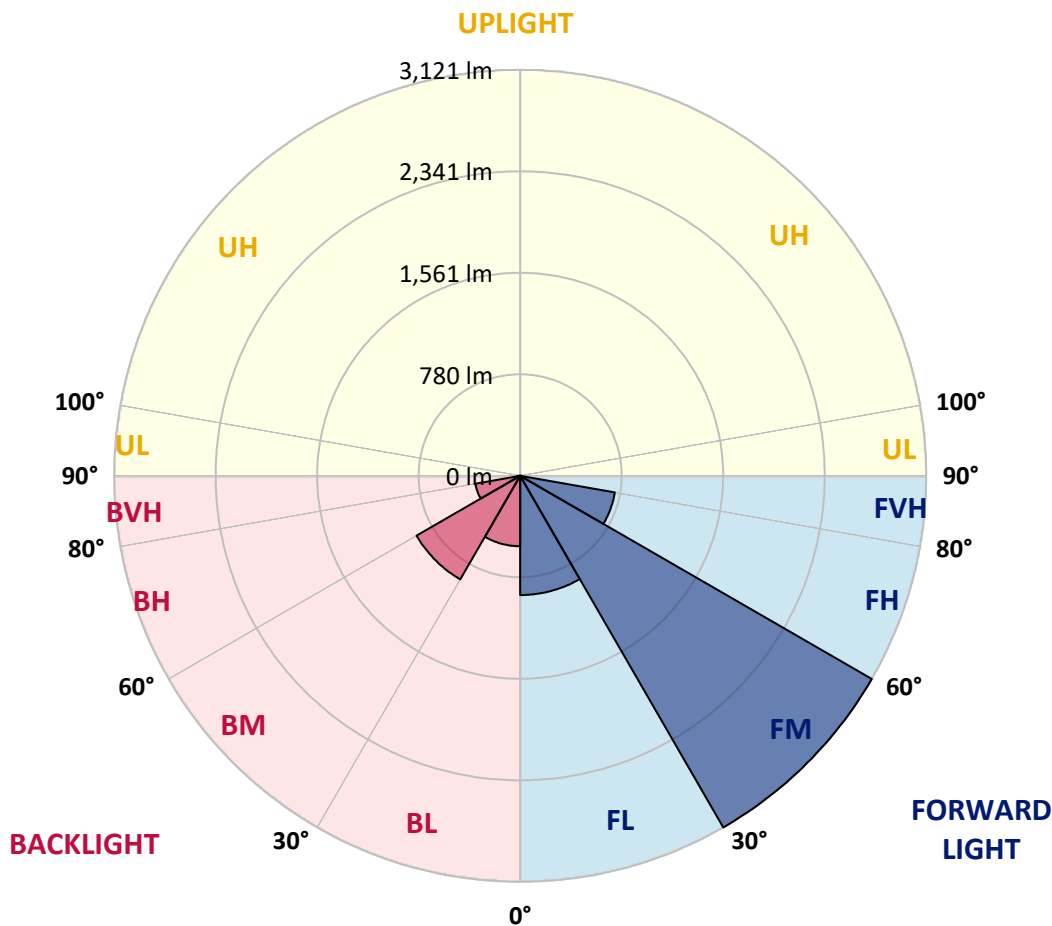


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.6	13.8			
FM (30°-60°)	3121.4	47.1			
FH (60°-80°)	739.2	11.2			G1/1800
FVH (80°-90°)	12.8	0.2			G1/100
BL (0°-30°)	541.5	8.2	B2/1000		
BM (30°-60°)	919.5	13.9	B1/1000		
BH (60°-80°)	350.0	5.3	B1/500		G1/500
BVH (80°-90°)	21.1	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°	54°	55°	65°	75°	85°
0°	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9
2.5°	2647.1	2636.9	2638.6	2652.2	2635.2	2628.4	2628.4	2595.2	2597.7	2574.7	2568.8
5°	2585.8	2562.0	2578.2	2598.6	2602.0	2608.8	2619.9	2611.3	2587.5	2562.8	2522.8
7.5°	2425.8	2447.1	2453.0	2467.5	2498.1	2526.2	2561.1	2537.3	2536.4	2511.8	2487.9
10°	2285.4	2272.6	2304.9	2326.2	2377.3	2424.1	2477.7	2475.2	2487.9	2459.8	2419.0
12.5°	2145.8	2135.6	2150.9	2199.4	2270.9	2339.0	2402.8	2379.0	2447.1	2442.0	2354.3
15°	1997.7	2005.3	2027.5	2072.6	2166.2	2247.9	2328.8	2329.6	2390.0	2410.5	2293.0
17.5°	1893.8	1885.3	1913.4	1980.6	2064.1	2161.9	2253.9	2272.6	2365.4	2377.3	2274.3
20°	1816.4	1828.3	1864.9	1898.9	1995.1	2113.4	2217.3	2224.1	2360.3	2392.6	2244.5
22.5°	1797.6	1790.8	1802.7	1858.1	1937.2	2065.8	2197.7	2223.2	2359.4	2387.5	2188.3
25°	1778.1	1800.2	1799.3	1854.7	1912.5	2027.5	2213.9	2241.9	2404.5	2413.9	2196.0
27.5°	1822.3	1819.8	1843.6	1847.9	1919.4	2037.7	2247.9	2269.2	2479.4	2471.8	2201.9
30°	1866.6	1853.8	1868.3	1918.5	1951.7	2096.4	2341.5	2339.8	2576.4	2571.3	2220.7
32.5°	1921.1	1915.1	1924.5	1968.7	2024.9	2174.7	2420.7	2470.9	2675.2	2707.5	2285.4
35°	1931.3	1956.0	1978.1	2037.7	2117.7	2301.5	2569.6	2611.3	2789.2	2890.5	2408.8
37.5°	1996.0	2005.3	2057.2	2162.8	2236.0	2470.9	2664.1	2690.5	2893.1	3008.0	2539.0
40°	2064.9	2076.0	2154.3	2264.9	2365.4	2581.6	2752.6	2761.1	2926.3	3098.2	2624.1
42.5°	2158.5	2168.7	2246.2	2384.9	2519.4	2676.0	2830.9	2840.3	2923.7	3202.0	2759.4
45°	2255.6	2280.2	2371.3	2528.8	2649.6	2786.7	2848.8	2887.1	2947.6	3294.8	2869.2
47.5°	2391.7	2414.7	2489.6	2643.7	2785.0	2883.7	2931.4	2968.8	3004.6	3375.7	2939.9
50°	2536.4	2540.7	2631.8	2771.4	2875.2	2993.5	3085.4	3098.2	3079.5	3469.3	3059.9
52.5°	2642.8	2656.5	2727.1	2863.3	3018.2	3163.7	3289.7	3303.3	3266.7	3504.2	3100.8
55°	2466.6	2459.0	2573.9	2755.2	3114.4	3417.4	3600.4	3610.6	3402.9	3612.3	3234.4
57.5°	1906.6	1943.2	2041.1	2259.8	2767.1	3529.7	3840.4	3803.8	3566.3	3666.8	3319.5
60°	1385.7	1377.2	1442.7	1589.1	2085.3	3042.0	3631.0	3668.5	3432.7	3305.0	2737.3
62.5°	1128.6	1116.7	1121.8	1126.9	1345.7	2018.9	2688.0	2687.1	2643.7	2375.6	1846.2
65°	902.2	930.3	932.9	971.2	999.3	1206.1	1557.6	1641.0	1429.1	1172.0	850.3
67.5°	680.1	669.9	703.9	840.1	892.9	870.7	850.3	859.7	611.1	440.9	415.4
70°	400.9	396.6	437.5	585.6	735.4	692.0	640.9	641.8	419.6	308.1	343.0
72.5°	219.6	218.7	227.3	297.1	417.9	434.1	384.7	396.6	250.2	249.4	268.1
75°	122.6	120.0	117.5	131.1	150.7	159.2	162.6	164.3	171.9	192.4	200.0
77.5°	45.1	43.4	43.4	50.2	63.8	80.0	101.3	103.0	121.7	139.6	147.2
80°	15.3	17.0	23.0	31.5	42.6	57.0	68.9	70.6	86.0	97.9	100.4
82.5°	9.4	10.2	15.3	22.1	30.6	40.0	51.1	51.9	63.8	71.5	74.9
85°	4.3	5.1	8.5	13.6	19.6	26.4	27.2	27.2	26.4	27.2	25.5
87.5°	0.0	0.0	1.7	1.7	1.7	2.6	3.4	2.6	4.3	5.1	5.1
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°	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9	2573.9
2.5°	2550.9	2541.6	2512.6	2487.1	2479.4	2445.4	2395.2	2401.1	2364.5	2381.5	2363.7
5°	2516.0	2484.5	2410.5	2379.0	2296.4	2259.0	2233.4	2169.6	2139.8	2133.8	2108.3
7.5°	2426.6	2407.1	2314.3	2229.2	2141.5	2066.6	1970.4	1904.9	1858.1	1845.3	1807.9
10°	2356.0	2312.6	2184.1	2054.7	1929.6	1799.3	1674.2	1576.3	1528.7	1473.4	1454.6
12.5°	2286.2	2220.7	2047.0	1881.1	1719.3	1555.1	1403.6	1284.4	1180.6	1155.9	1147.4
15°	2242.8	2128.7	1924.5	1724.4	1494.6	1280.1	1128.6	1050.3	986.5	960.1	978.8
17.5°	2185.8	2053.0	1807.0	1540.6	1287.8	1090.3	963.5	915.0	892.0	894.6	886.9
20°	2114.3	1981.5	1652.9	1373.8	1103.1	945.6	873.3	855.4	858.8	864.8	862.2
22.5°	2063.2	1894.7	1541.4	1203.5	953.3	865.6	835.8	823.1	834.1	839.2	835.0
25°	2024.0	1820.6	1406.1	1052.9	866.5	820.5	806.9	806.0	823.1	829.9	825.6
27.5°	1988.3	1751.7	1271.6	938.0	808.6	785.6	781.4	791.6	802.6	809.4	815.4
30°	1967.0	1698.9	1145.7	841.8	779.7	768.6	760.9	770.3	776.3	783.1	779.7
32.5°	1987.4	1661.5	1023.9	787.3	755.8	744.8	755.0	749.0	759.2	765.2	755.8
35°	2051.3	1628.3	937.1	758.4	728.6	732.8	734.5	732.0	736.2	731.1	742.2
37.5°	2114.3	1616.3	857.1	733.7	715.8	715.8	714.1	709.0	717.5	715.8	720.9
40°	2194.3	1624.0	789.0	707.3	703.9	702.2	695.4	694.5	691.1	692.0	693.7
42.5°	2264.1	1641.0	749.9	690.3	692.8	696.2	683.5	673.3	677.5	669.0	669.0
45°	2338.1	1656.3	715.0	678.4	675.8	675.0	664.8	658.8	655.4	656.2	663.9
47.5°	2454.7	1678.5	688.6	662.2	663.9	651.1	648.6	640.9	644.3	649.4	650.3
50°	2537.3	1725.3	668.2	643.5	649.4	640.9	625.6	622.2	622.2	630.7	629.0
52.5°	2595.2	1790.8	648.6	623.0	625.6	618.8	613.7	606.0	600.9	612.8	618.8
55°	2772.2	1899.8	643.5	606.0	605.2	598.4	589.0	581.3	578.8	580.5	592.4
57.5°	2755.2	1865.7	627.3	576.2	574.5	565.2	555.8	553.3	552.4	554.1	557.5
60°	2236.8	1378.0	560.1	542.2	539.6	537.9	528.6	518.4	513.2	518.4	514.1
62.5°	1480.2	922.7	493.7	501.3	503.0	498.8	483.5	473.2	474.9	480.9	471.5
65°	726.9	542.2	447.7	468.1	469.8	457.9	443.5	431.5	425.6	430.7	426.4
67.5°	415.4	414.5	410.3	431.5	430.7	418.8	395.8	385.6	375.4	377.1	374.5
70°	352.4	359.2	367.7	380.5	379.6	366.0	338.8	331.1	316.6	314.9	310.7
72.5°	277.5	289.4	308.1	317.5	309.8	292.8	274.9	262.2	249.4	241.7	244.3
75°	206.0	223.0	233.2	239.2	227.3	217.9	203.4	188.1	172.8	166.0	163.4
77.5°	149.8	154.9	164.3	168.5	160.9	151.5	143.0	127.7	113.2	103.8	101.3
80°	104.7	108.1	114.9	114.9	114.9	110.7	99.6	84.3	74.9	66.4	64.7
82.5°	73.2	76.6	83.4	80.0	79.2	74.1	67.2	55.3	45.1	39.2	37.5
85°	25.5	28.1	34.0	40.9	43.4	42.6	38.3	30.6	23.8	19.6	17.9
87.5°	6.0	6.0	6.8	6.0	6.0	6.8	6.0	6.0	6.0	4.3	3.4
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)