

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632767

Luminaire Tested: GWS-SA2D-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11495 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

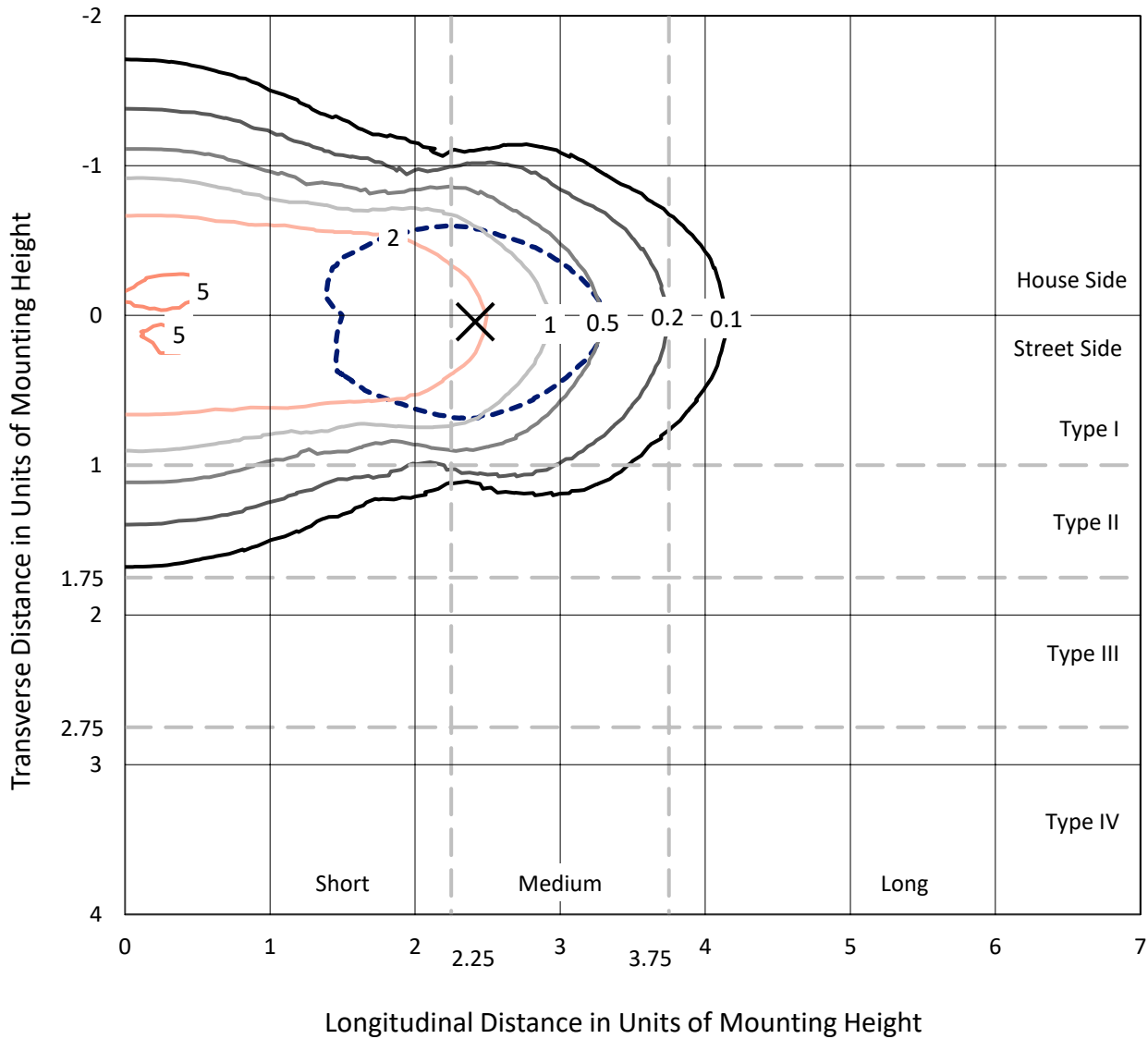
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

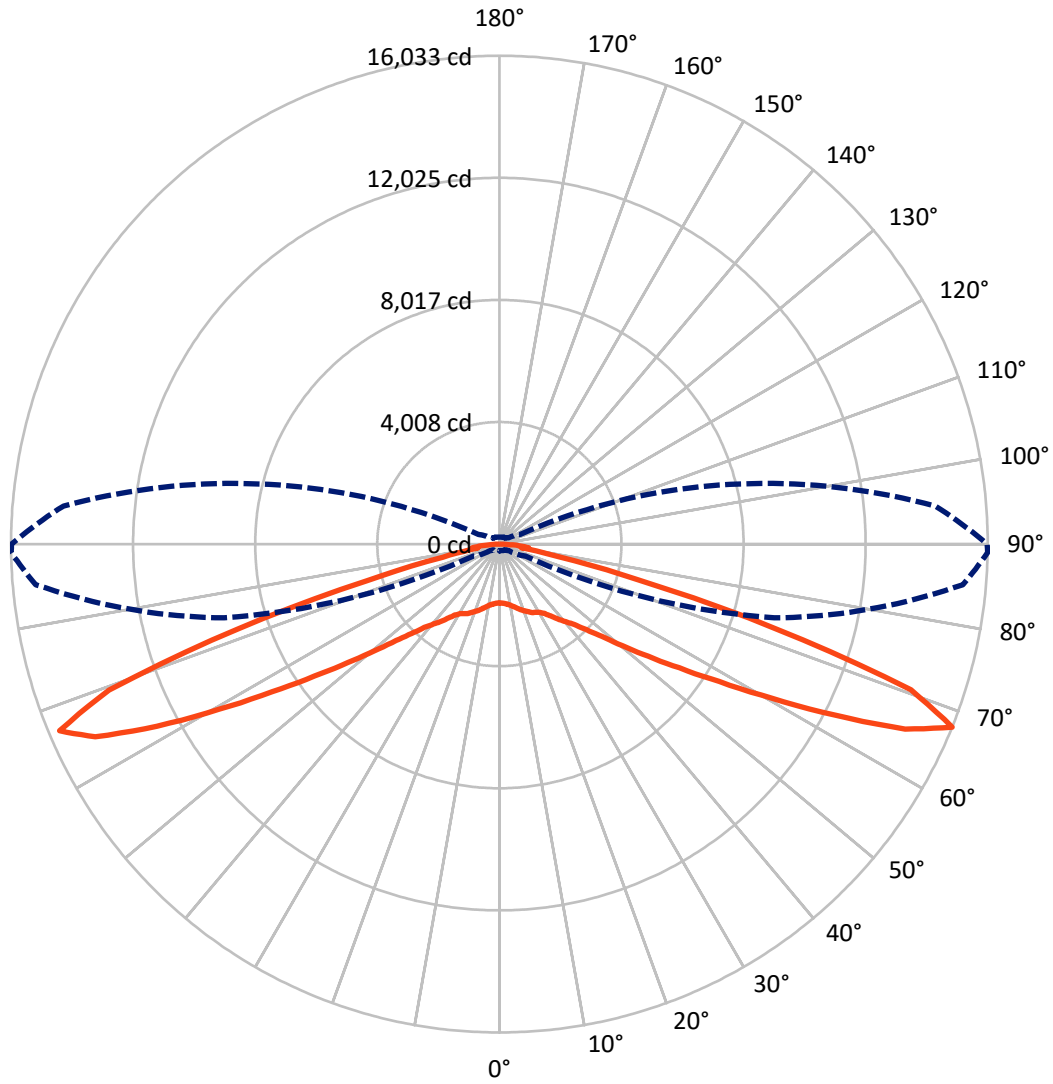
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5697.1	0.0	5697.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5797.9	0.0	5797.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	11495.0	0.0	11495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	1.7
10°-20°	630.2	5.5
20°-30°	1065.3	9.3
30°-40°	1461.9	12.7
40°-50°	1864.3	16.2
50°-60°	2339.0	20.3
60°-70°	2821.0	24.5
70°-80°	1020.6	8.9
80°-90°	99.3	0.9
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°	11495.0	100.0
0°-180°	11495.0	100.0

Coefficient of Utilization



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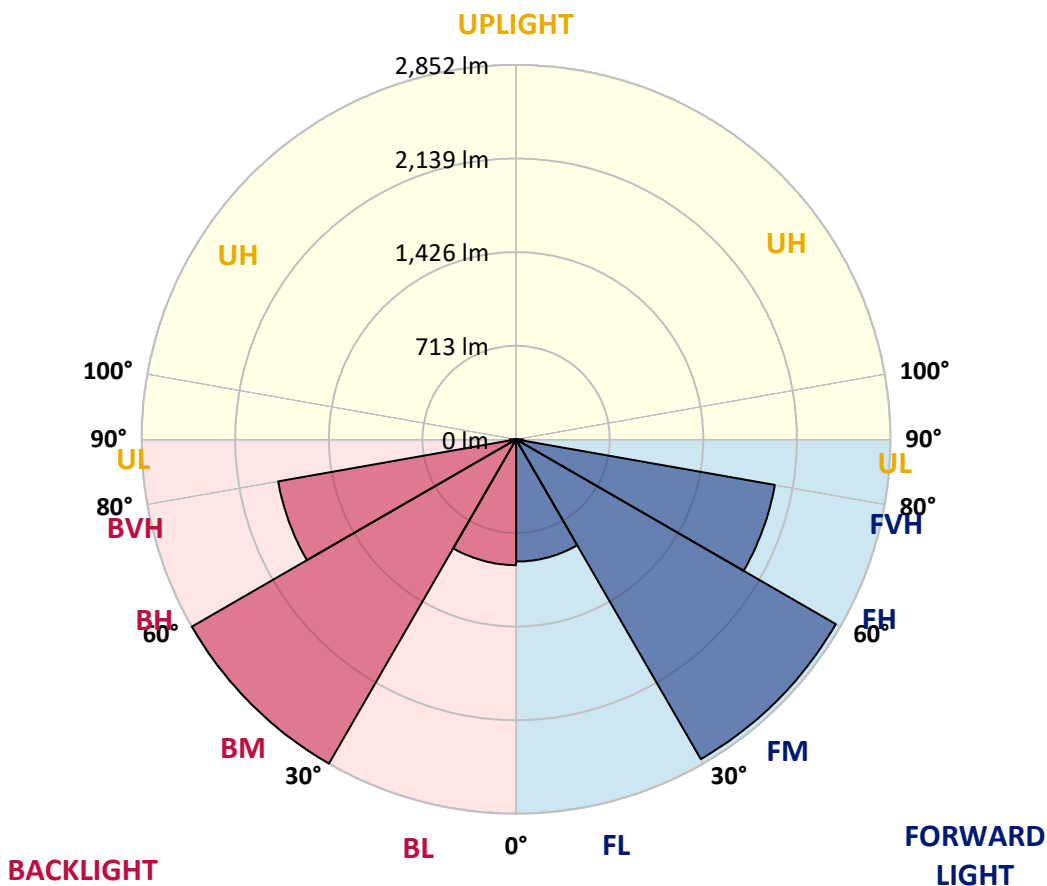
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.0	8.1			
FM (30°-60°)	2813.0	24.5			
FH (60°-80°)	2001.4	17.4			G2/5000
FVH (80°-90°)	52.4	0.5			G1/100
BL (0°-30°)	957.9	8.3	B2/1000		
BM (30°-60°)	2852.2	24.8	B3/5000		
BH (60°-80°)	1840.2	16.0	B3/2500		G3/2500
BVH (80°-90°)	46.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1935.1	1933.5	1929.3	1941.7	1939.2	1940.1	1945.0	1941.7	1935.9	1926.0	1940.1
5°	1989.6	1988.8	1979.7	1987.1	1978.9	1973.1	1972.3	1964.0	1957.4	1946.7	1961.5
7.5°	2042.4	2041.6	2034.2	2047.4	2040.8	2034.2	2026.8	2010.2	1994.6	1978.9	1995.4
10°	2082.9	2082.1	2080.4	2099.4	2101.1	2103.5	2100.2	2072.2	2044.9	2025.9	2042.4
12.5°	2106.0	2108.5	2112.6	2147.3	2164.6	2181.1	2185.3	2162.2	2116.7	2089.5	2109.3
15°	2090.3	2095.3	2115.9	2178.7	2226.5	2263.7	2279.4	2260.4	2201.8	2156.4	2178.7
17.5°	2015.2	2019.3	2059.8	2155.5	2261.2	2347.1	2372.7	2361.1	2295.9	2240.6	2262.0
20°	1911.2	1920.3	1964.0	2097.8	2255.4	2404.9	2473.4	2469.3	2398.3	2313.2	2338.8
22.5°	1817.1	1827.8	1874.0	2021.8	2216.6	2419.7	2574.9	2585.7	2491.6	2385.9	2406.5
25°	1711.4	1721.3	1780.7	1931.8	2149.8	2408.2	2661.6	2710.3	2597.2	2469.3	2488.3
27.5°	1603.2	1610.7	1669.3	1830.3	2062.3	2386.7	2730.1	2847.4	2701.2	2527.1	2540.3
30°	1508.3	1518.2	1571.9	1728.7	1966.5	2343.8	2786.3	2993.5	2821.0	2592.3	2603.0
32.5°	1416.7	1424.9	1483.5	1628.8	1864.9	2277.7	2836.6	3165.2	2998.4	2713.6	2713.6
35°	1301.1	1315.9	1382.0	1533.1	1769.2	2190.2	2873.0	3365.0	3241.2	2892.8	2893.6
37.5°	1194.6	1202.8	1272.2	1424.9	1668.5	2091.2	2876.3	3572.2	3548.3	3120.6	3122.3
40°	1073.2	1084.0	1158.3	1309.3	1552.9	1987.1	2844.9	3765.4	3870.2	3355.1	3346.0
42.5°	950.2	965.9	1036.9	1184.7	1428.2	1860.0	2761.5	3949.5	4278.9	3626.7	3604.4
45°	831.3	841.2	912.2	1051.8	1285.4	1708.1	2627.8	4126.2	4764.3	4039.5	4007.3
47.5°	697.6	701.7	775.2	908.9	1137.6	1538.9	2436.2	4283.9	5297.6	4586.0	4530.7
50°	578.7	584.5	642.3	757.0	956.8	1338.2	2197.7	4376.3	5977.1	5331.5	5235.7
52.5°	468.1	473.9	520.1	611.7	790.9	1109.6	1902.1	4354.9	6666.4	6256.9	6117.4
55°	378.1	382.2	413.6	485.4	622.5	882.5	1552.9	4162.5	7431.7	7465.6	7165.1
57.5°	319.5	321.1	342.6	386.4	486.3	680.3	1198.7	3708.4	8234.2	9007.7	8514.0
60°	285.6	286.5	296.4	323.6	383.9	519.3	878.4	2985.2	9065.5	10937.1	10260.1
62.5°	264.2	264.2	272.4	288.1	318.7	399.6	645.6	2144.0	9662.4	13036.5	12363.6
65°	243.5	243.5	249.3	262.5	279.0	326.1	484.6	1382.8	9955.5	14791.6	14642.2
67.5°	217.1	217.9	222.1	236.1	251.0	272.4	367.4	935.4	9347.0	15277.1	16033.3
70°	192.4	193.2	199.0	208.0	220.4	235.3	287.3	644.8	6803.5	12723.6	14335.9
72.5°	165.1	168.4	172.5	182.4	189.9	200.6	234.5	417.7	3958.6	8184.6	9476.6
75°	135.4	139.5	144.5	154.4	159.3	163.5	193.2	298.0	1904.6	4147.6	4723.1
77.5°	104.8	109.0	114.8	123.8	127.1	132.1	147.8	215.5	912.2	1838.5	1982.2
80°	70.2	71.8	76.8	87.5	93.3	96.6	109.0	147.0	396.3	738.1	731.4
82.5°	42.9	43.8	45.4	52.0	54.5	57.8	71.0	90.0	189.1	838.8	961.8
85°	15.7	14.9	14.0	18.2	21.5	24.8	33.0	45.4	82.6	576.2	644.8
87.5°	0.0	0.0	0.0	0.8	1.7	1.7	3.3	6.6	19.8	215.5	147.8
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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1935.9	1926.9	1938.4	1946.7	1964.8	1971.4	1973.1	1967.3	1967.3	1957.4	1959.1
5°	1958.2	1952.5	1971.4	1985.5	2011.9	2021.8	2028.4	2024.3	2026.8	2020.2	2021.8
7.5°	1992.1	1987.1	2020.2	2047.4	2074.6	2086.2	2092.0	2088.7	2089.5	2081.2	2083.7
10°	2039.1	2040.8	2080.4	2115.9	2152.2	2163.8	2166.3	2156.4	2148.1	2133.3	2134.1
12.5°	2103.5	2111.8	2167.9	2207.6	2244.7	2261.2	2243.1	2206.7	2172.9	2147.3	2144.0
15°	2173.7	2188.6	2269.5	2319.8	2360.3	2352.0	2298.4	2216.6	2149.8	2111.8	2104.4
17.5°	2257.9	2280.2	2381.8	2442.0	2476.7	2423.9	2311.6	2189.4	2096.1	2044.9	2035.0
20°	2337.2	2372.7	2500.6	2579.1	2583.2	2464.3	2305.8	2134.1	2016.9	1954.1	1940.9
22.5°	2409.8	2455.2	2625.3	2725.2	2671.5	2482.5	2270.3	2055.7	1921.1	1847.6	1836.1
25°	2489.1	2553.5	2770.6	2863.9	2759.9	2475.0	2196.0	1958.2	1805.5	1730.4	1722.1
27.5°	2543.6	2624.5	2916.7	3005.9	2832.5	2432.9	2100.2	1851.7	1699.8	1628.8	1617.3
30°	2606.3	2709.5	3077.7	3160.3	2877.1	2371.0	1997.9	1752.7	1601.6	1524.8	1516.6
32.5°	2720.2	2849.8	3277.5	3323.7	2891.1	2294.2	1899.6	1656.9	1499.2	1422.4	1410.9
35°	2903.5	3055.4	3558.2	3506.2	2880.4	2210.0	1806.3	1544.6	1394.4	1322.6	1311.0
37.5°	3134.7	3323.7	3871.1	3670.5	2850.7	2117.6	1695.7	1450.5	1300.3	1227.6	1221.0
40°	3350.1	3582.9	4221.9	3812.5	2790.4	2003.6	1589.2	1352.3	1198.7	1121.9	1107.1
42.5°	3620.1	3929.7	4628.1	3935.5	2691.3	1867.4	1469.5	1230.9	1071.6	1002.2	984.1
45°	4030.4	4415.1	5100.3	4053.5	2543.6	1699.8	1319.3	1083.1	932.1	861.1	847.0
47.5°	4542.3	5021.9	5612.2	4123.7	2319.0	1523.2	1149.2	927.1	776.0	696.0	689.3
50°	5261.3	5904.4	6161.2	4111.3	2068.0	1313.5	957.7	741.4	615.0	557.3	548.2
52.5°	6137.2	7012.3	6754.8	3962.7	1801.4	1074.9	746.3	582.0	487.9	446.6	439.2
55°	7236.1	8339.0	7379.7	3644.0	1464.6	823.1	586.2	459.0	394.6	369.9	366.6
57.5°	8596.6	10057.0	7981.6	3107.4	1101.3	628.3	451.6	378.9	348.4	333.5	332.7
60°	10392.2	11880.7	8504.1	2414.8	788.4	480.5	373.2	338.5	314.5	304.6	303.8
62.5°	12527.1	13536.8	8829.4	1644.5	592.8	383.1	328.6	307.1	293.1	287.3	286.5
65°	14721.5	14583.6	8674.2	1077.4	449.9	325.3	294.7	283.2	270.8	265.0	265.0
67.5°	16017.6	14362.3	7482.9	748.0	356.6	285.6	265.8	255.1	234.5	229.5	229.5
70°	14187.3	11638.0	4904.7	547.3	288.9	250.1	231.2	216.3	208.0	203.1	202.3
72.5°	9383.4	7572.9	2608.0	379.8	241.1	213.0	195.7	189.9	180.0	175.0	174.2
75°	4670.2	3977.6	1336.6	274.1	200.6	170.9	163.5	161.0	152.7	146.1	144.5
77.5°	1946.7	1770.8	623.3	199.0	152.7	137.9	131.3	131.3	122.2	114.8	111.5
80°	733.9	653.8	294.7	136.2	113.1	102.4	98.2	94.9	87.5	78.4	73.5
82.5°	981.6	641.5	144.5	85.0	74.3	66.0	60.3	57.8	53.7	49.5	46.2
85°	635.7	455.7	65.2	43.8	37.2	28.1	24.8	23.1	20.6	18.2	16.5
87.5°	129.6	152.7	19.8	8.3	5.0	2.5	2.5	0.8	0.0	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)