

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: P639039

Luminaire Tested: GWS-SA5B-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10904.1 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

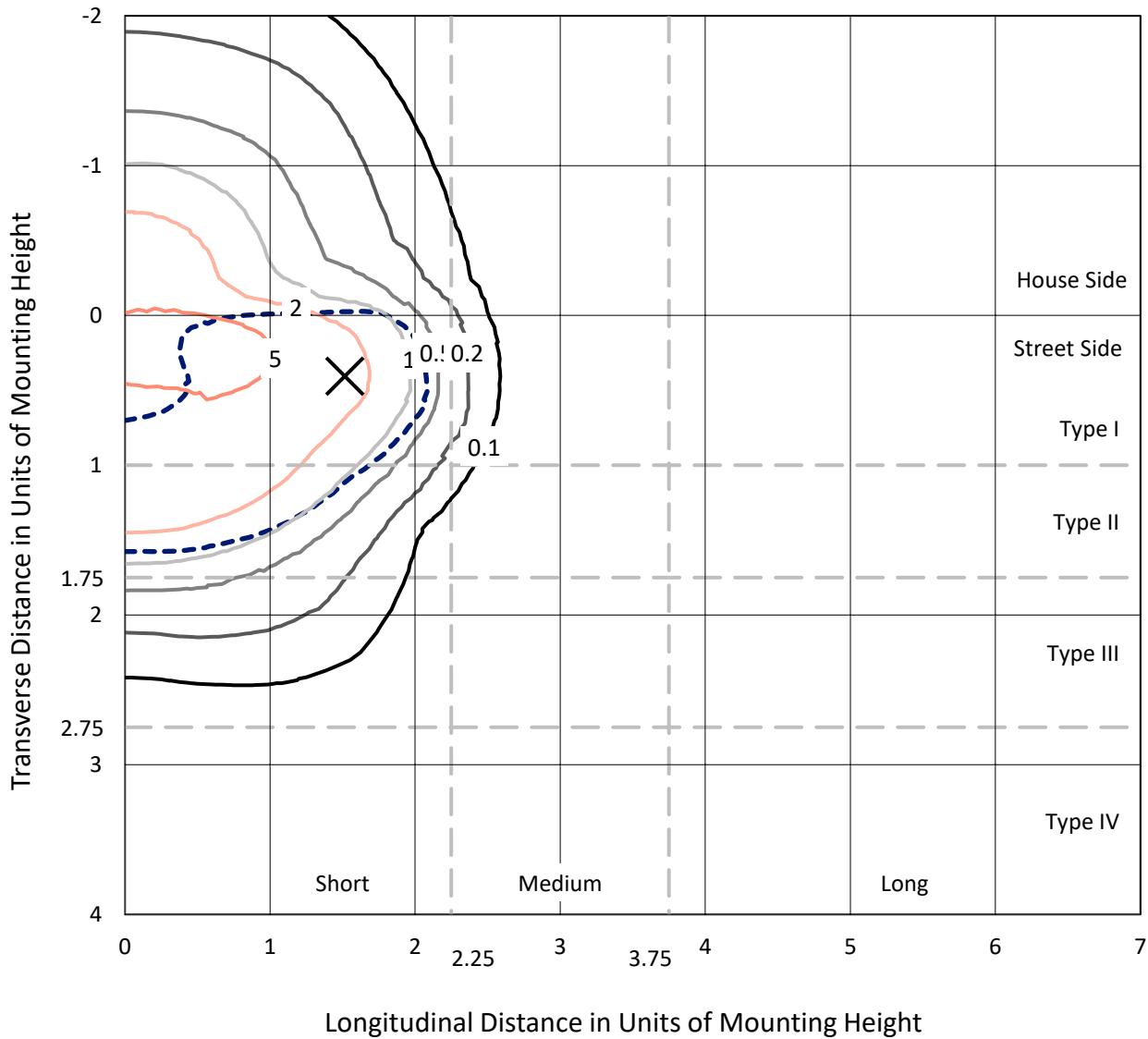
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

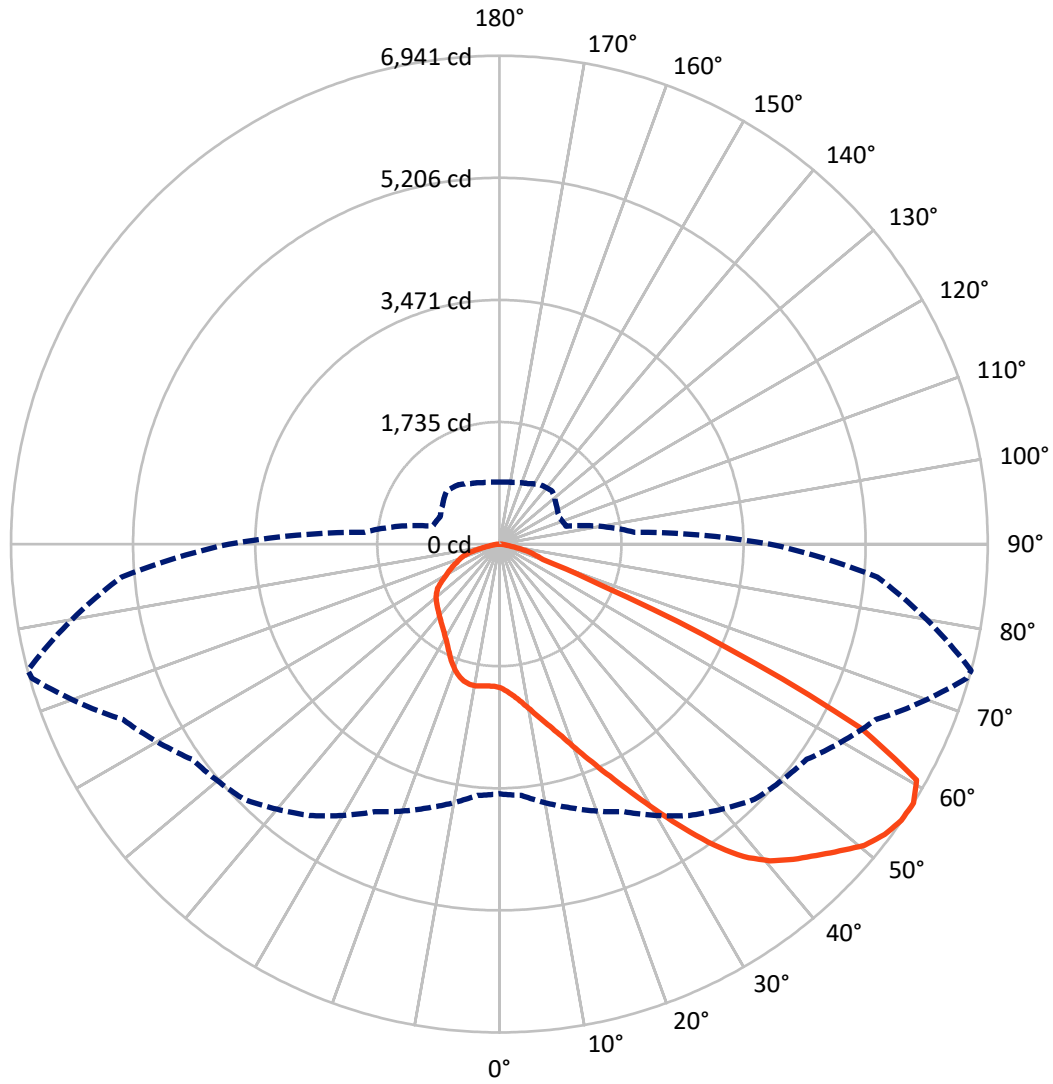
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2949.8	0.0	2949.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7954.3	0.0	7954.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	10904.1	0.0	10904.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.9
10°-20°	650.6	6.0
20°-30°	1153.8	10.6
30°-40°	1766.3	16.2
40°-50°	2459.5	22.6
50°-60°	2818.1	25.8
60°-70°	1448.0	13.3
70°-80°	364.5	3.3
80°-90°	39.0	0.4
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°	10904.1	100.0
0°-180°	10904.1	100.0

Coefficient of Utilization



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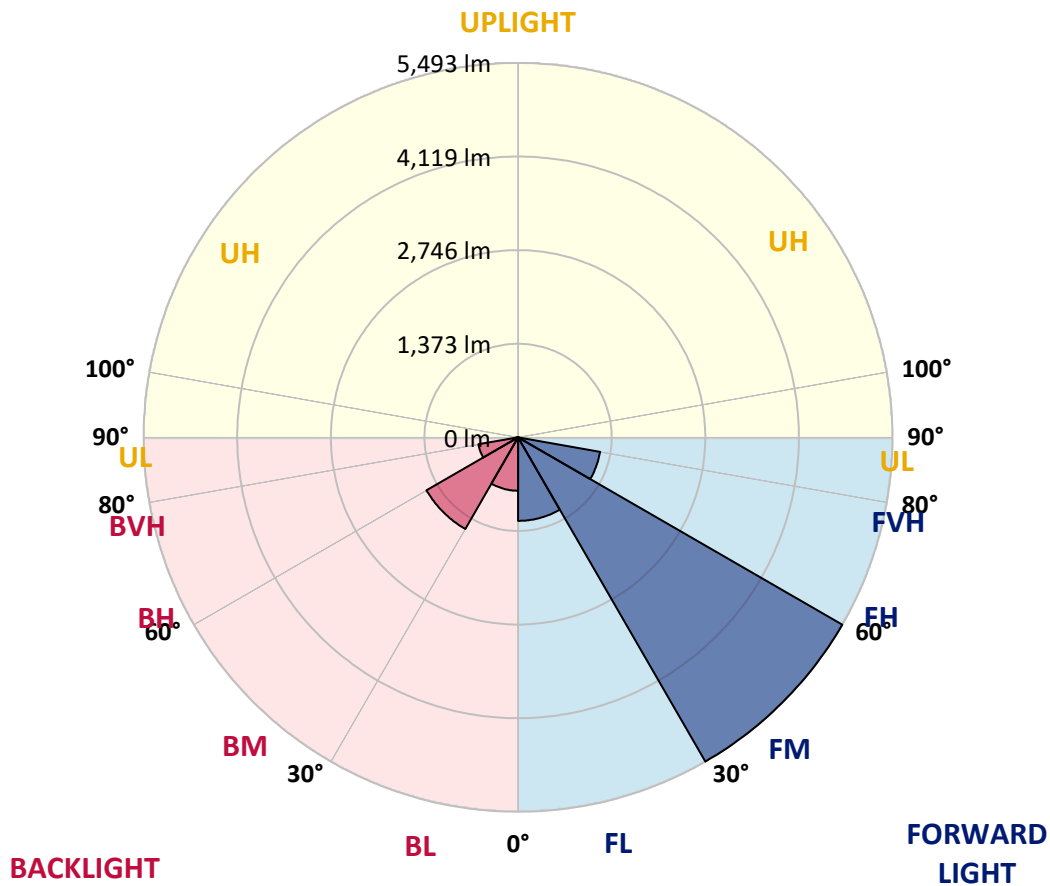
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.1	11.2			
FM (30°-60°)	5492.5	50.4			
FH (60°-80°)	1222.2	11.2			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	783.6	7.2	B2/1000		
BM (30°-60°)	1551.3	14.2	B2/2500		
BH (60°-80°)	590.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	24.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1
2.5°	2194.0	2199.6	2194.0	2203.3	2184.6	2176.2	2155.5	2124.6	2100.2	2096.5	2069.3
5°	2364.6	2376.8	2369.3	2365.5	2340.2	2321.5	2290.5	2228.7	2178.0	2170.5	2117.1
7.5°	2474.3	2482.7	2482.7	2485.6	2476.2	2454.6	2421.8	2348.7	2277.4	2266.2	2185.5
10°	2510.9	2517.4	2529.6	2553.1	2571.8	2578.4	2556.8	2486.5	2399.3	2388.0	2275.5
12.5°	2519.3	2526.8	2545.6	2588.7	2640.3	2687.1	2690.9	2639.3	2541.8	2529.6	2379.6
15°	2535.2	2542.8	2568.1	2621.5	2697.5	2787.5	2842.8	2807.2	2699.3	2686.2	2497.7
17.5°	2533.4	2541.8	2579.3	2650.6	2752.8	2883.1	2990.0	3005.0	2893.4	2870.9	2631.8
20°	2528.7	2536.2	2576.5	2663.7	2790.3	2969.4	3162.5	3240.3	3120.3	3099.7	2788.4
22.5°	2566.2	2574.6	2605.6	2677.8	2810.0	3035.9	3321.9	3509.4	3389.4	3360.3	2968.4
25°	2650.6	2662.8	2681.5	2731.2	2845.6	3095.0	3485.0	3814.1	3691.3	3656.6	3164.4
27.5°	2780.9	2795.9	2822.2	2845.6	2925.3	3170.0	3647.2	4155.4	4032.6	3996.0	3371.6
30°	2940.3	2960.0	2993.7	3009.7	3064.1	3280.6	3823.5	4507.0	4435.7	4385.1	3605.0
32.5°	3160.6	3187.8	3219.7	3224.4	3257.2	3448.5	3997.9	4855.8	4854.9	4819.2	3870.4
35°	3447.5	3476.6	3483.2	3489.7	3505.7	3679.1	4208.9	5173.6	5296.5	5255.2	4159.2
37.5°	3760.7	3802.9	3813.2	3784.1	3806.6	3956.6	4446.1	5428.7	5680.9	5636.8	4438.6
40°	4095.4	4112.3	4140.4	4094.5	4122.6	4274.5	4678.6	5591.8	5967.8	5920.9	4658.9
42.5°	4335.4	4366.4	4408.6	4391.7	4407.6	4546.4	4841.7	5670.6	6172.2	6125.3	4817.3
45°	4596.1	4605.5	4632.6	4628.9	4638.3	4767.7	4958.9	5705.2	6355.0	6312.8	4952.4
47.5°	4823.0	4837.0	4854.9	4834.2	4813.6	4898.0	5054.6	5735.3	6566.0	6515.3	5093.9
50°	5041.4	5053.6	5075.2	5015.2	4938.3	4959.9	5101.4	5776.5	6763.8	6728.2	5205.5
52.5°	5081.8	5094.9	5196.1	5208.3	5109.9	5033.9	5183.9	5867.5	6880.1	6857.6	5245.8
55°	4574.5	4598.0	4799.5	5031.1	5274.0	5249.6	5316.1	5915.3	6926.0	6931.6	5318.0
57.5°	3550.7	3584.4	3878.8	4196.7	4707.7	5130.5	5333.0	5903.1	6910.1	6941.0	5392.1
60°	2329.0	2348.7	2697.5	3053.7	3583.5	4168.5	4773.3	5683.7	6768.5	6812.5	5373.3
62.5°	1406.4	1428.9	1709.2	1979.3	2291.5	2682.5	3237.5	4567.9	5673.4	5771.8	4303.5
65°	981.7	1011.7	1257.3	1479.5	1587.3	1506.7	1639.8	2551.2	3534.7	3576.0	2629.9
67.5°	711.6	732.3	933.8	1198.2	1317.3	1064.2	811.0	1129.8	1539.5	1554.5	1084.8
70°	466.0	489.4	672.3	912.3	1075.4	862.6	606.6	611.3	647.9	655.4	630.1
72.5°	256.0	270.0	415.4	605.7	635.7	515.7	473.5	508.2	533.5	533.5	540.1
75°	132.2	144.4	169.7	199.7	241.0	282.2	341.3	392.9	420.0	421.9	419.1
77.5°	67.5	72.2	90.9	98.4	107.8	125.6	163.1	209.1	233.5	242.8	241.0
80°	31.9	33.8	38.4	45.0	55.3	70.3	88.1	105.0	120.0	121.9	132.2
82.5°	16.9	18.8	20.6	24.4	30.0	37.5	51.6	61.9	71.3	73.1	81.6
85°	6.6	7.5	8.4	9.4	13.1	15.9	21.6	29.1	35.6	35.6	42.2
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	3.8	4.7	6.6	6.6	11.3
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°	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1	2042.1
2.5°	2062.7	2035.5	2023.3	2003.6	1987.7	1969.9	1955.8	1945.5	1938.9	1935.2	1931.4
5°	2096.5	2055.2	2022.4	1983.0	1955.8	1929.6	1908.0	1893.0	1885.5	1879.9	1876.1
7.5°	2149.0	2093.6	2031.8	1970.8	1923.0	1880.8	1853.6	1837.7	1827.4	1823.6	1820.8
10°	2221.2	2144.3	2042.1	1945.5	1874.2	1828.3	1809.6	1802.1	1803.0	1801.1	1800.2
12.5°	2302.7	2197.7	2039.3	1900.5	1821.7	1794.6	1795.5	1807.7	1821.7	1825.5	1826.4
15°	2390.9	2250.2	2012.1	1842.4	1780.5	1783.3	1807.7	1836.7	1863.0	1873.3	1875.2
17.5°	2486.5	2294.3	1962.4	1778.6	1746.7	1776.7	1821.7	1869.6	1908.0	1924.9	1929.6
20°	2593.4	2331.8	1892.1	1715.8	1714.9	1764.5	1830.2	1893.0	1941.8	1964.3	1968.0
22.5°	2706.8	2355.2	1805.8	1657.7	1682.0	1748.6	1823.6	1889.2	1940.8	1963.3	1968.0
25°	2821.2	2362.7	1711.1	1604.2	1648.3	1723.3	1791.7	1844.2	1893.0	1912.7	1916.4
27.5°	2928.1	2341.2	1621.1	1558.3	1617.3	1685.8	1731.7	1759.9	1793.6	1808.6	1811.4
30°	3036.9	2298.0	1545.2	1521.7	1582.7	1634.2	1654.9	1656.7	1669.9	1669.9	1671.7
32.5°	3146.6	2234.3	1478.6	1486.1	1539.5	1573.3	1576.1	1554.5	1538.6	1512.3	1511.4
35°	3273.1	2169.6	1424.2	1445.8	1488.9	1509.5	1501.1	1459.8	1421.4	1378.3	1376.4
37.5°	3390.3	2103.0	1378.3	1404.5	1431.7	1446.7	1427.0	1377.3	1345.4	1301.4	1294.8
40°	3486.9	2043.0	1334.2	1361.4	1374.5	1387.6	1355.8	1315.4	1320.1	1295.8	1294.8
42.5°	3543.2	1984.9	1292.9	1313.6	1322.0	1331.4	1303.3	1273.3	1298.6	1279.8	1280.8
45°	3584.4	1934.3	1255.4	1262.9	1283.6	1297.6	1271.4	1237.6	1243.2	1171.1	1154.2
47.5°	3631.3	1906.1	1219.8	1212.3	1248.9	1273.3	1232.9	1184.2	1150.4	1079.2	1072.6
50°	3681.0	1895.8	1182.3	1161.7	1205.7	1229.2	1182.3	1121.4	1077.3	1038.9	1035.1
52.5°	3697.9	1894.9	1135.4	1100.7	1144.8	1177.6	1138.2	1076.4	1023.9	986.3	984.5
55°	3764.4	1922.1	1075.4	1017.3	1058.5	1126.0	1097.0	1007.9	965.7	948.8	947.0
57.5°	3842.3	1926.8	980.7	926.3	983.5	1063.2	1026.7	949.8	903.8	883.2	881.3
60°	3810.4	1811.4	879.5	857.0	919.8	1004.2	970.4	903.8	850.4	830.7	828.8
62.5°	2903.7	1278.9	805.4	797.0	851.3	918.8	912.3	842.9	792.3	778.2	776.3
65°	1746.7	898.2	734.1	733.2	771.6	836.3	844.8	788.5	735.1	715.4	715.4
67.5°	863.5	687.3	653.5	648.8	673.2	719.1	754.8	708.8	663.8	645.1	642.3
70°	610.4	605.7	594.4	581.3	586.0	604.7	619.7	581.3	533.5	514.7	511.0
72.5°	527.9	528.8	521.3	511.0	507.2	494.1	481.0	452.9	423.8	404.1	406.0
75°	409.7	411.6	416.3	412.5	402.2	388.2	374.1	338.5	315.0	296.3	292.5
77.5°	239.1	248.5	263.5	259.7	261.6	241.9	236.3	201.6	180.0	166.9	164.1
80°	135.0	140.6	147.2	151.9	146.3	137.8	125.6	106.9	100.3	90.9	89.1
82.5°	81.6	87.2	90.0	93.8	91.9	80.6	71.3	59.1	53.4	48.8	47.8
85°	41.3	45.0	47.8	49.7	44.1	36.6	32.8	26.3	22.5	19.7	19.7
87.5°	10.3	11.3	13.1	11.3	10.3	4.7	3.8	0.9	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)