

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: P635298

Luminaire Tested: GWS-SA3D-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-740-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

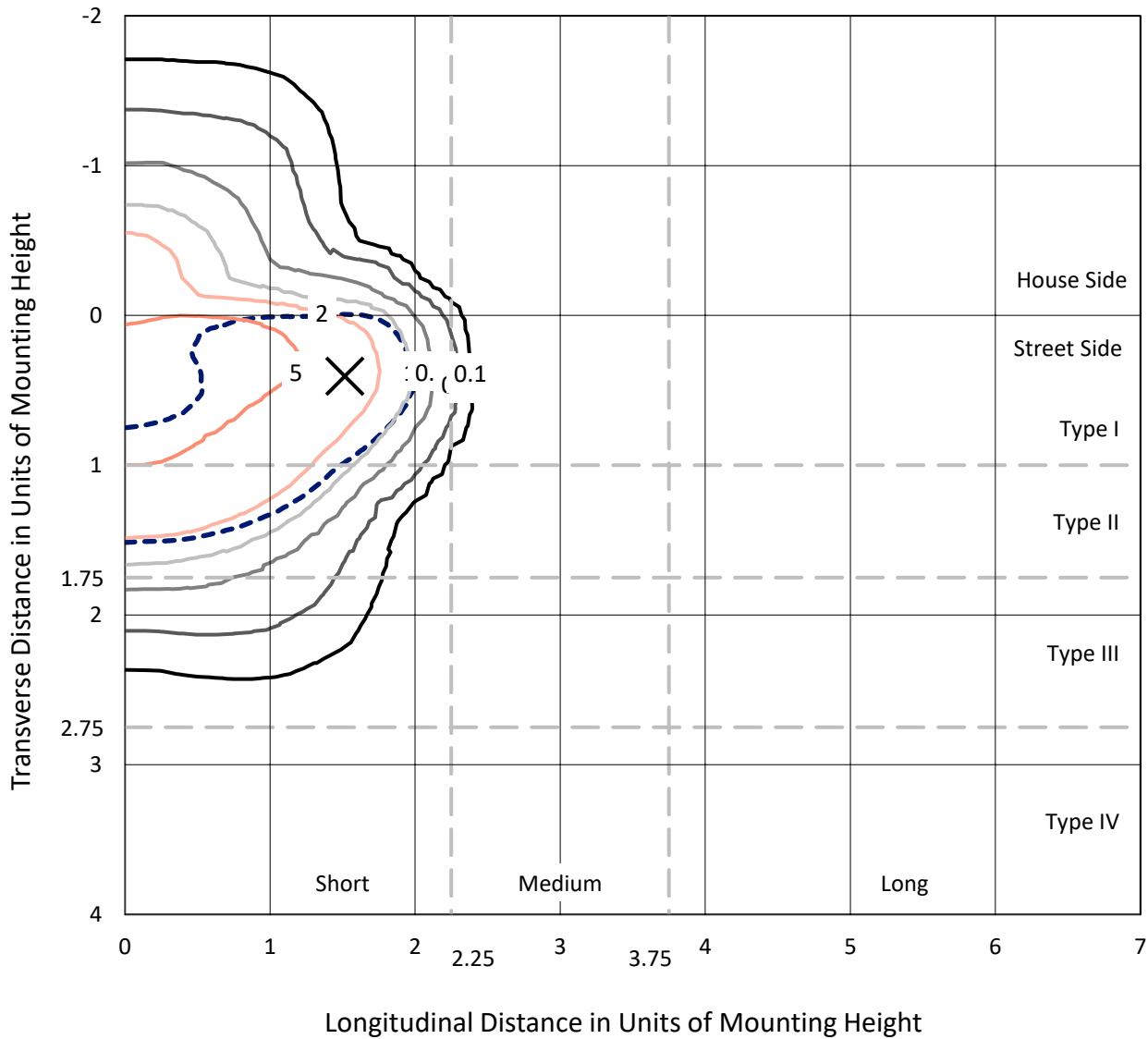
Lumens per Lamp: N/A  
Luminaire Lumens: 10453.3 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

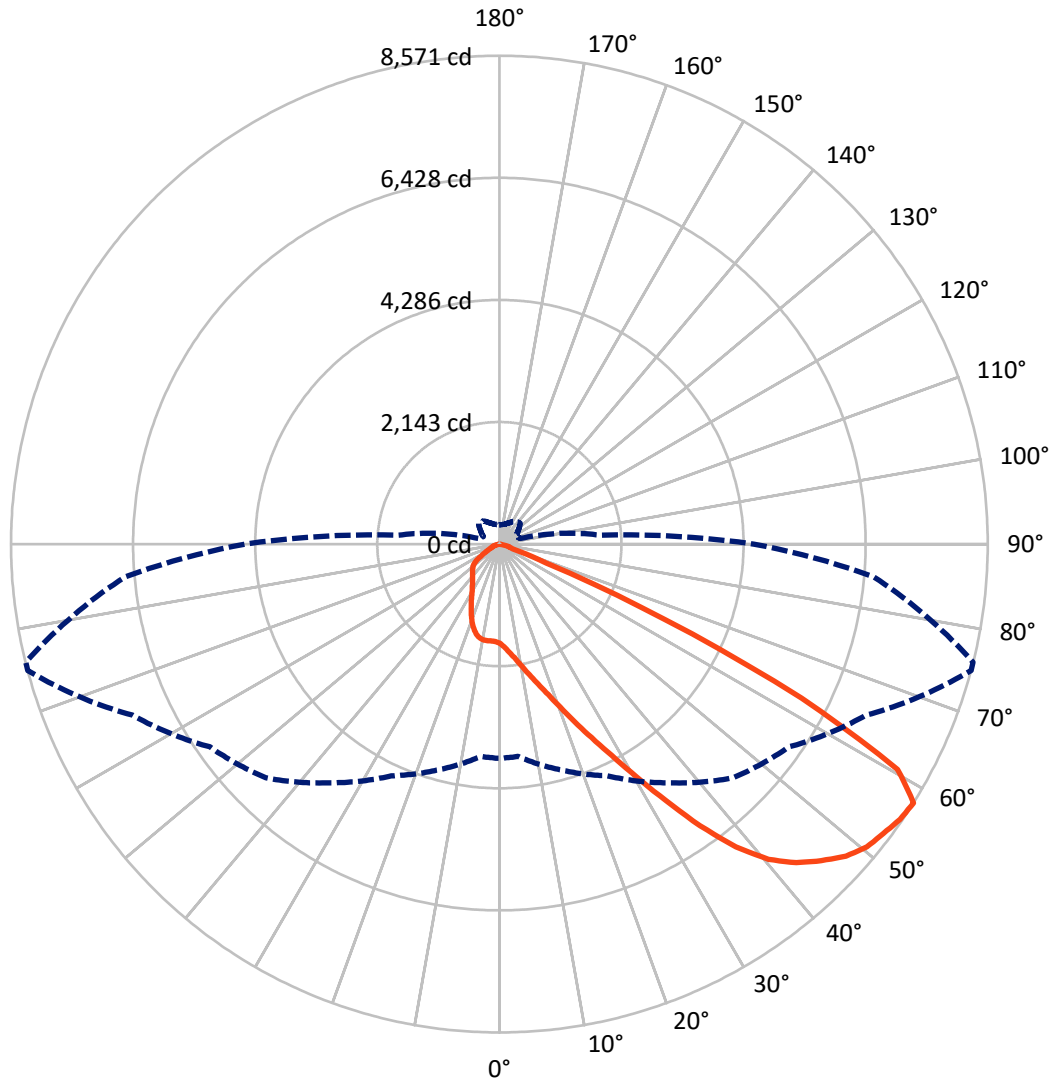
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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
<b>House Side</b>	Lumens	1707.5	0.0	1707.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8745.8	0.0	8745.8
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	10453.3	0.0	10453.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.4	1.7
10°-20°	576.3	5.5
20°-30°	1055.4	10.1
30°-40°	1750.9	16.8
40°-50°	2674.1	25.6
50°-60°	3004.8	28.7
60°-70°	1108.3	10.6
70°-80°	105.9	1.0
80°-90°	0.1	0.0
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°	10453.3	100.0
0°-180°	10453.3	100.0

**Coefficient of Utilization**



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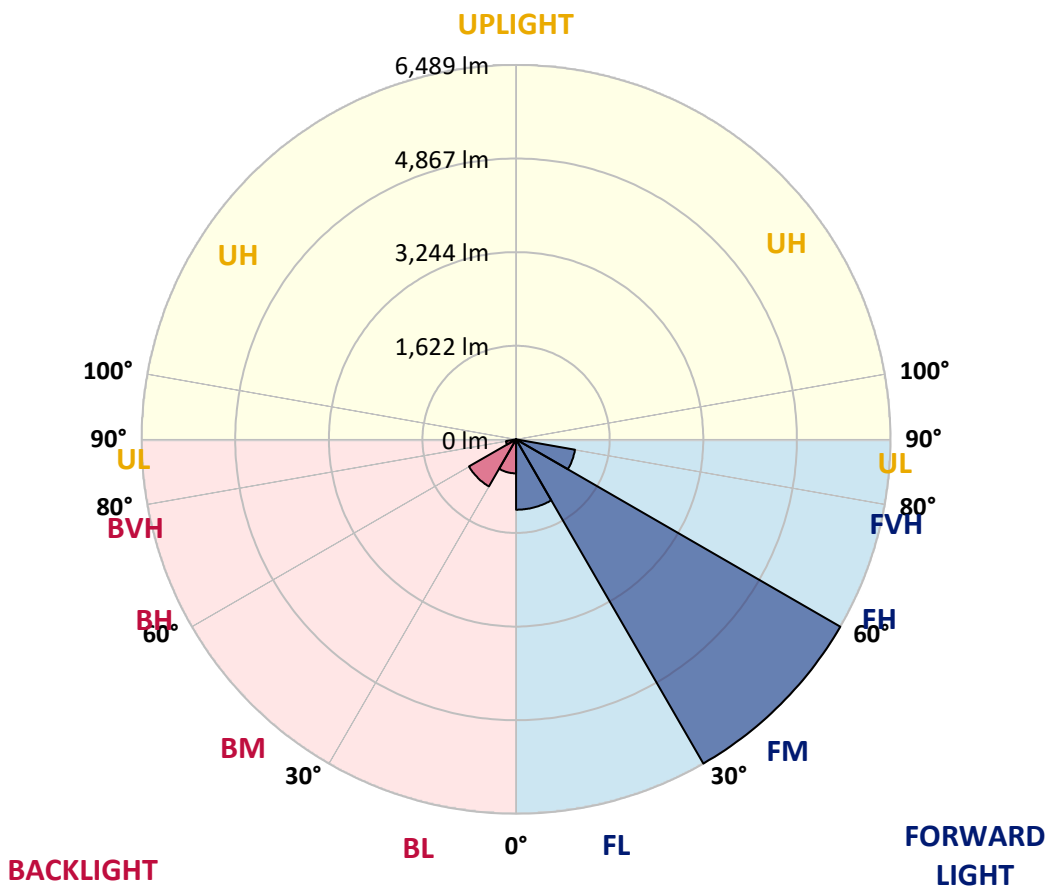
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.9	11.7			
FM (30°-60°)	6488.9	62.1			
FH (60°-80°)	1036.9	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	589.2	5.6	B2/1000		
BM (30°-60°)	941.0	9.0	B1/1000		
BH (60°-80°)	177.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	55°	65°	75°	76°	85°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1947.8	1968.0	1961.7	1949.1	1941.5	1915.0	1898.6	1850.7	1816.6	1812.9	1781.3
5°	2193.8	2190.1	2185.0	2169.9	2157.3	2115.6	2066.4	1985.7	1913.8	1904.9	1838.1
7.5°	2328.8	2331.3	2333.9	2331.3	2322.5	2291.0	2236.7	2142.1	2032.4	2024.8	1918.8
10°	2384.3	2389.4	2402.0	2426.0	2447.4	2444.9	2413.3	2316.2	2181.2	2168.6	2026.1
12.5°	2410.8	2417.1	2437.3	2482.7	2540.8	2586.2	2591.2	2504.2	2355.3	2335.1	2153.5
15°	2447.4	2453.7	2478.9	2538.2	2622.8	2712.3	2770.4	2714.9	2548.3	2526.9	2293.5
17.5°	2463.8	2472.6	2509.2	2587.4	2697.2	2834.7	2965.9	2960.9	2776.7	2760.3	2456.2
20°	2495.3	2501.7	2534.5	2619.0	2751.4	2949.5	3170.3	3249.8	3055.5	3031.5	2653.0
22.5°	2595.0	2597.5	2612.7	2665.7	2789.3	3032.8	3378.4	3586.6	3384.7	3353.2	2873.8
25°	2757.8	2756.5	2762.8	2771.6	2862.5	3117.3	3579.0	3966.3	3761.9	3727.9	3123.6
27.5°	2964.6	2964.6	2979.8	2954.6	2991.1	3222.0	3777.1	4402.8	4201.0	4153.0	3397.4
30°	3208.1	3206.9	3242.2	3201.8	3213.2	3387.3	3990.3	4878.4	4730.8	4671.5	3712.7
32.5°	3538.7	3531.1	3571.5	3515.9	3478.1	3637.1	4250.2	5375.5	5365.4	5274.5	4108.9
35°	3956.2	3943.6	3956.2	3902.0	3833.9	3986.5	4590.8	5871.3	6069.3	5973.4	4580.7
37.5°	4371.3	4411.6	4425.5	4332.2	4276.7	4429.3	5000.8	6315.3	6741.7	6642.1	5071.4
40°	4860.8	4848.1	4896.1	4791.4	4756.1	4925.1	5402.0	6645.9	7274.1	7179.5	5507.9
42.5°	5221.6	5244.3	5303.6	5245.5	5217.8	5376.7	5738.8	6838.9	7643.7	7550.4	5819.5
45°	5654.3	5670.7	5693.4	5645.4	5616.4	5772.9	5982.3	6923.4	7925.1	7824.1	6029.0
47.5°	6122.3	6134.9	6134.9	6036.5	5943.2	6007.5	6145.0	6971.3	8183.7	8086.5	6184.1
50°	6457.9	6464.2	6519.7	6450.3	6247.2	6147.5	6219.5	7018.0	8355.3	8264.4	6234.6
52.5°	6160.2	6152.6	6335.5	6479.3	6533.6	6335.5	6348.1	7086.1	8438.5	8360.3	6275.0
55°	5187.5	5174.9	5432.2	5781.7	6259.8	6513.4	6503.3	7126.5	8530.6	8482.7	6421.3
57.5°	3760.7	3739.2	4097.5	4486.1	5113.1	5800.6	6204.3	7103.8	8571.0	8567.2	6591.6
60°	2260.7	2243.0	2581.1	2989.9	3474.3	4165.6	4835.5	6363.3	8031.0	8038.6	6148.8
62.5°	1391.5	1407.9	1713.2	1921.3	2101.7	2309.9	2697.2	4280.4	5949.5	5998.7	4320.8
65°	936.1	948.7	1231.3	1493.7	1493.7	1221.2	1048.3	2046.2	3174.1	3090.8	2043.7
67.5°	628.3	642.1	865.4	1172.0	1216.1	851.5	425.1	610.6	884.3	857.9	505.9
70°	369.6	384.8	576.5	803.6	885.6	592.9	283.8	258.6	251.0	243.5	196.8
72.5°	165.3	171.6	293.9	408.7	373.4	249.8	200.6	206.9	195.5	191.8	160.2
75°	50.5	53.0	75.7	88.3	89.6	89.6	121.1	162.7	153.9	155.2	123.6
77.5°	12.6	12.6	20.2	18.9	10.1	8.8	22.7	36.6	37.8	34.1	25.2
80°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1767.4	1734.6	1713.2	1682.9	1661.5	1638.8	1618.6	1602.2	1593.3	1590.8	1592.1
5°	1807.8	1756.1	1705.6	1647.6	1607.2	1569.4	1539.1	1515.1	1503.8	1500.0	1500.0
7.5°	1869.6	1797.7	1708.1	1617.3	1549.2	1489.9	1454.6	1428.1	1418.0	1415.5	1407.9
10°	1950.4	1852.0	1704.4	1563.1	1467.2	1405.4	1380.1	1372.6	1376.4	1377.6	1376.4
12.5°	2047.5	1908.7	1680.4	1483.6	1380.1	1342.3	1344.8	1365.0	1387.7	1399.1	1401.6
15°	2150.9	1960.5	1626.1	1389.0	1305.7	1304.4	1341.0	1387.7	1431.9	1450.8	1455.8
17.5°	2267.0	2002.1	1542.9	1288.0	1241.4	1278.0	1343.6	1415.5	1474.8	1506.3	1512.6
20°	2394.4	2036.1	1436.9	1193.4	1184.6	1250.2	1341.0	1429.3	1502.5	1537.8	1544.1
22.5°	2526.9	2060.1	1314.5	1106.4	1132.9	1218.7	1317.1	1402.8	1472.2	1512.6	1517.6
25°	2678.3	2062.6	1189.6	1033.2	1084.9	1175.8	1259.0	1329.7	1387.7	1423.0	1426.8
27.5°	2810.7	2032.4	1078.6	973.9	1040.8	1122.8	1178.3	1217.4	1257.8	1278.0	1279.2
30°	2963.4	1979.4	973.9	926.0	995.4	1057.2	1084.9	1093.8	1097.6	1101.3	1096.3
32.5°	3145.0	1915.0	895.7	879.3	943.6	985.3	992.8	975.2	953.7	923.5	915.9
35°	3368.3	1857.0	831.4	833.9	886.9	912.1	905.8	867.9	826.3	789.7	783.4
37.5°	3610.6	1807.8	782.2	789.7	825.1	842.7	823.8	782.2	763.2	731.7	733.0
40°	3825.0	1767.4	738.0	745.6	762.0	778.4	748.1	720.3	755.7	753.1	755.7
42.5°	3977.7	1733.4	700.2	696.4	707.7	719.1	696.4	682.5	741.8	725.4	734.2
45°	4067.2	1701.8	668.6	645.9	663.6	683.8	668.6	651.0	671.1	595.5	589.1
47.5°	4127.8	1684.2	640.9	596.7	628.3	663.6	632.0	589.1	560.1	494.5	489.5
50°	4134.1	1675.3	608.1	546.3	586.6	624.5	587.9	528.6	487.0	457.9	454.2
52.5°	4166.9	1693.0	562.7	481.9	526.1	586.6	561.4	502.1	445.3	420.1	415.1
55°	4313.2	1767.4	487.0	393.6	457.9	557.6	539.9	447.9	393.6	378.5	374.7
57.5°	4464.6	1782.6	383.5	311.6	398.7	516.0	493.3	412.5	359.5	341.9	338.1
60°	4082.4	1468.4	287.6	257.4	352.0	476.9	456.7	391.1	329.3	307.8	304.0
62.5°	2682.1	793.5	228.3	218.2	296.5	403.7	416.3	353.2	293.9	271.2	270.0
65°	1236.3	368.4	175.4	172.8	232.1	321.7	358.3	309.1	248.5	228.3	228.3
67.5°	336.8	182.9	137.5	127.4	157.7	215.7	261.1	230.9	176.6	152.6	151.4
70°	167.8	147.6	123.6	109.8	113.5	133.7	153.9	128.7	89.6	73.2	71.9
72.5°	137.5	121.1	104.7	93.4	85.8	82.0	79.5	64.3	41.6	31.5	30.3
75°	102.2	87.0	74.4	60.6	51.7	47.9	42.9	31.5	17.7	10.1	8.8
77.5°	22.7	21.4	20.2	15.1	13.9	11.4	8.8	6.3	2.5	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)