

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: P637223

Luminaire Tested: GWS-SA4C-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637223
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-SA4C-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11372.5 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

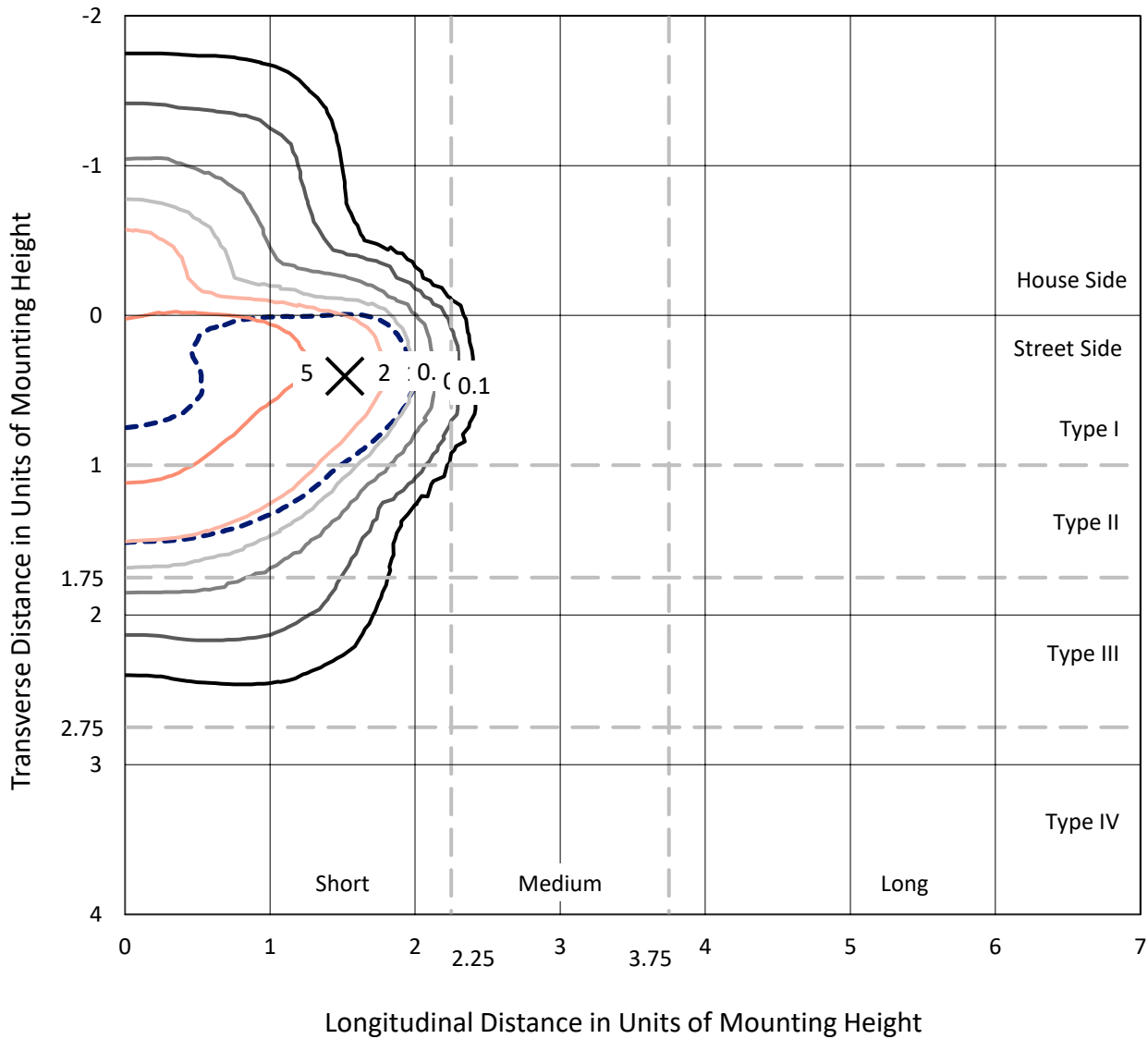
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637223
 CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

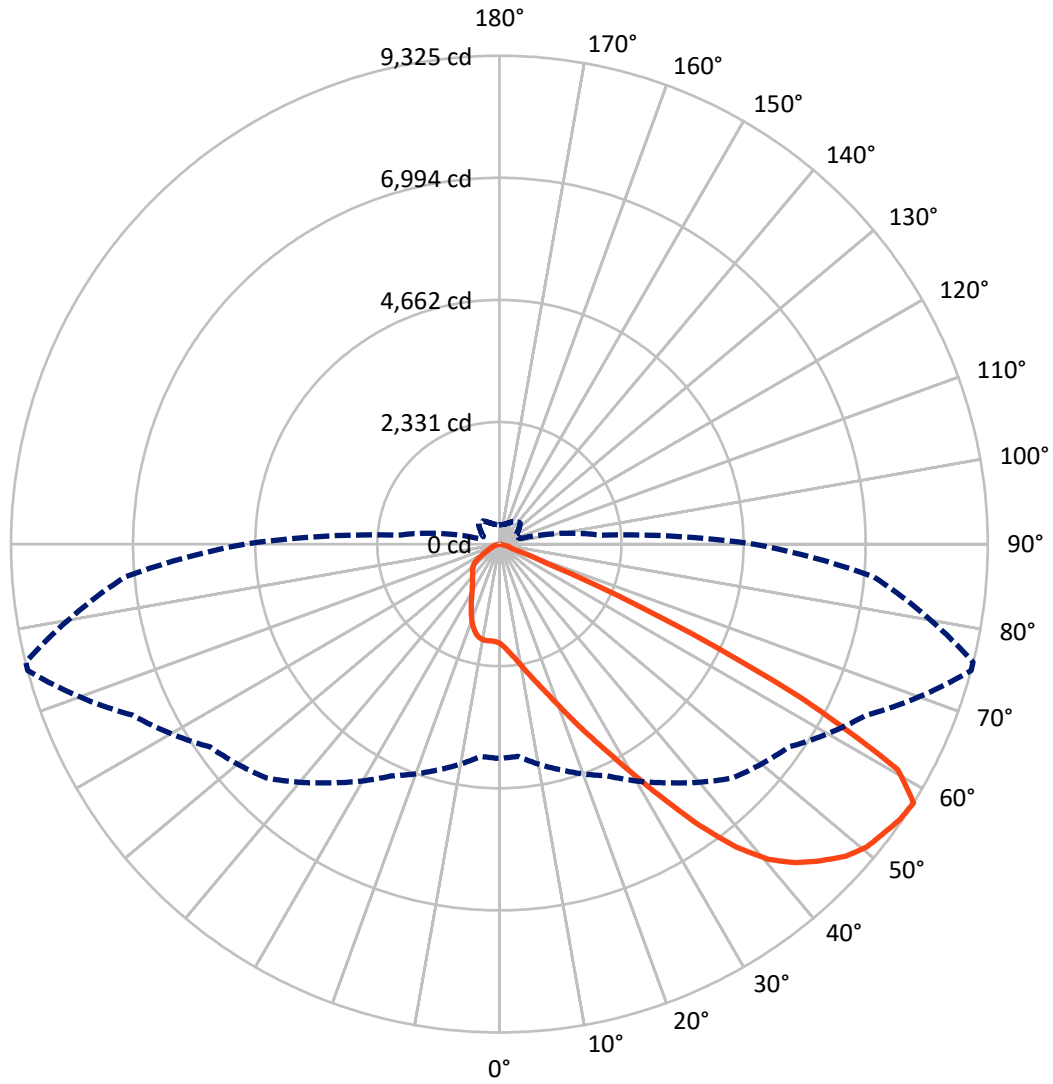
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P637223
CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637223

CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1857.7	0.0	1857.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9514.8	0.0	9514.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	11372.5	0.0	11372.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.7
10°-20°	627.0	5.5
20°-30°	1148.2	10.1
30°-40°	1904.9	16.8
40°-50°	2909.3	25.6
50°-60°	3269.0	28.7
60°-70°	1205.8	10.6
70°-80°	115.3	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°	11372.5	100.0
0°-180°	11372.5	100.0

Coefficient of Utilization



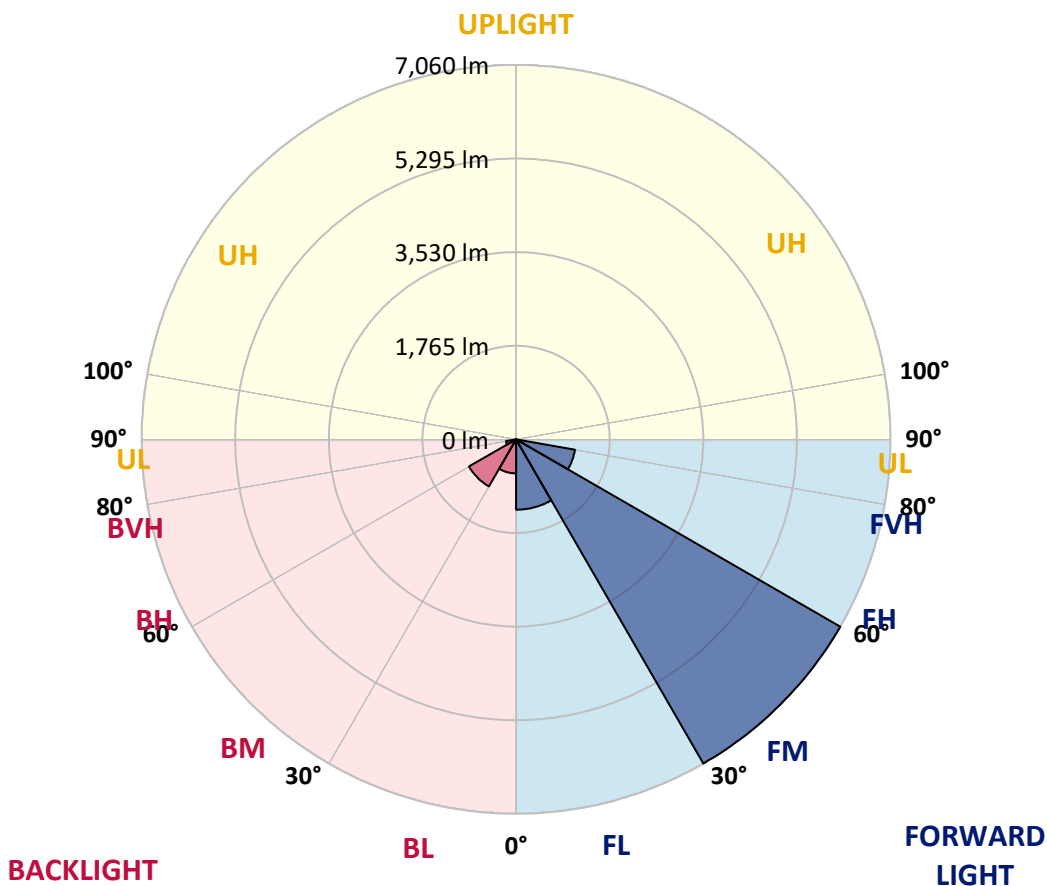
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.1	11.7			
FM (30°-60°)	7059.5	62.1			
FH (60°-80°)	1128.1	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	641.0	5.6	B2/1000		
BM (30°-60°)	1023.7	9.0	B2/2500		
BH (60°-80°)	192.9	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





REPORT NUMBER: P637223

CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8
2.5°	2119.1	2141.1	2134.2	2120.5	2112.3	2083.4	2065.6	2013.4	1976.4	1972.3	1937.9
5°	2386.8	2382.6	2377.1	2360.7	2346.9	2301.7	2248.1	2160.3	2082.1	2072.5	1999.7
7.5°	2533.6	2536.4	2539.1	2536.4	2526.7	2492.4	2433.4	2330.5	2211.1	2202.8	2087.6
10°	2594.0	2599.5	2613.2	2639.3	2662.6	2659.9	2625.6	2519.9	2373.0	2359.3	2204.2
12.5°	2622.8	2629.7	2651.6	2701.1	2764.2	2813.6	2819.1	2724.4	2562.4	2540.5	2342.8
15°	2662.6	2669.5	2696.9	2761.4	2853.4	2950.8	3014.0	2953.6	2772.4	2749.1	2495.2
17.5°	2680.5	2690.1	2729.9	2815.0	2934.4	3084.0	3226.7	3221.2	3020.8	3003.0	2672.2
20°	2714.8	2721.6	2757.3	2849.3	2993.4	3208.9	3449.1	3535.5	3324.2	3298.1	2886.3
22.5°	2823.2	2825.9	2842.4	2900.1	3034.6	3299.5	3675.5	3902.0	3682.4	3648.1	3126.5
25°	3000.3	2998.9	3005.7	3015.4	3114.2	3391.4	3893.7	4315.1	4092.8	4055.7	3398.3
27.5°	3225.3	3225.3	3241.8	3214.4	3254.2	3505.3	4109.2	4790.0	4570.4	4518.2	3696.1
30°	3490.2	3488.9	3527.3	3483.4	3495.7	3685.1	4341.2	5307.4	5146.8	5082.3	4039.2
32.5°	3849.8	3841.6	3885.5	3825.1	3783.9	3956.9	4623.9	5848.2	5837.2	5738.4	4470.2
35°	4304.1	4290.4	4304.1	4245.1	4171.0	4337.1	4994.5	6387.5	6603.0	6498.7	4983.5
37.5°	4755.7	4799.6	4814.7	4713.1	4652.7	4818.8	5440.5	6870.7	7334.6	7226.1	5517.4
40°	5288.2	5274.5	5326.6	5212.7	5174.3	5358.2	5877.0	7230.3	7913.8	7810.8	5992.3
42.5°	5680.7	5705.4	5769.9	5706.8	5676.6	5849.5	6243.4	7440.2	8315.9	8214.3	6331.3
45°	6151.5	6169.3	6194.0	6141.9	6110.3	6280.5	6508.3	7532.2	8622.0	8512.2	6559.1
47.5°	6660.7	6674.4	6674.4	6567.3	6465.8	6535.8	6685.4	7584.4	8903.3	8797.6	6727.9
50°	7025.8	7032.6	7093.0	7017.5	6796.5	6688.1	6766.4	7635.1	9090.0	8991.2	6782.8
52.5°	6701.8	6693.6	6892.6	7049.1	7108.1	6892.6	6906.3	7709.2	9180.6	9095.5	6826.7
55°	5643.7	5629.9	5909.9	6290.1	6810.3	7086.1	7075.2	7753.2	9280.7	9228.6	6986.0
57.5°	4091.4	4068.0	4457.8	4880.6	5562.7	6310.7	6749.9	7728.5	9324.7	9320.5	7171.2
60°	2459.5	2440.3	2808.1	3252.8	3779.8	4531.9	5260.7	6922.8	8737.2	8745.5	6689.5
62.5°	1513.9	1531.7	1863.8	2090.3	2286.6	2513.0	2934.4	4656.8	6472.6	6526.2	4700.8
65°	1018.4	1032.1	1339.5	1625.0	1625.0	1328.6	1140.5	2226.2	3453.2	3362.6	2223.4
67.5°	683.5	698.6	941.5	1275.0	1323.1	926.4	462.5	664.3	962.1	933.3	550.4
70°	402.1	418.6	627.2	874.3	963.5	645.1	308.8	281.4	273.1	264.9	214.1
72.5°	179.8	186.7	319.8	444.7	406.3	271.8	218.2	225.1	212.7	208.6	174.3
75°	54.9	57.6	82.3	96.1	97.4	97.4	131.8	177.1	167.4	168.8	134.5
77.5°	13.7	13.7	22.0	20.6	11.0	9.6	24.7	39.8	41.2	37.1	27.4
80°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
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°	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8
2.5°	1922.9	1887.2	1863.8	1830.9	1807.6	1782.9	1760.9	1743.1	1733.4	1730.7	1732.1
5°	1966.8	1910.5	1855.6	1792.5	1748.5	1707.4	1674.4	1648.4	1636.0	1631.9	1631.9
7.5°	2034.0	1955.8	1858.3	1759.5	1685.4	1620.9	1582.5	1553.7	1542.7	1539.9	1531.7
10°	2121.9	2014.8	1854.2	1700.5	1596.2	1528.9	1501.5	1493.3	1497.4	1498.8	1497.4
12.5°	2227.5	2076.6	1828.2	1614.0	1501.5	1460.3	1463.1	1485.0	1509.7	1522.1	1524.8
15°	2340.1	2132.8	1769.1	1511.1	1420.5	1419.1	1459.0	1509.7	1557.8	1578.4	1583.8
17.5°	2466.4	2178.1	1678.5	1401.3	1350.5	1390.3	1461.7	1539.9	1604.4	1638.7	1645.6
20°	2605.0	2215.2	1563.3	1298.4	1288.8	1360.1	1459.0	1555.0	1634.6	1673.1	1679.9
22.5°	2749.1	2241.3	1430.1	1203.7	1232.5	1325.8	1432.9	1526.2	1601.7	1645.6	1651.1
25°	2913.8	2244.0	1294.3	1124.1	1180.3	1279.2	1369.7	1446.6	1509.7	1548.2	1552.3
27.5°	3057.9	2211.1	1173.5	1059.6	1132.3	1221.5	1281.9	1324.4	1368.4	1390.3	1391.7
30°	3224.0	2153.4	1059.6	1007.4	1082.9	1150.1	1180.3	1189.9	1194.1	1198.2	1192.7
32.5°	3421.6	2083.4	974.5	956.6	1026.6	1071.9	1080.1	1060.9	1037.6	1004.7	996.4
35°	3664.5	2020.3	904.5	907.2	964.9	992.3	985.4	944.3	899.0	859.2	852.3
37.5°	3928.1	1966.8	850.9	859.2	897.6	916.8	896.2	850.9	830.4	796.0	797.4
40°	4161.4	1922.9	802.9	811.1	829.0	846.8	813.9	783.7	822.1	819.4	822.1
42.5°	4327.4	1885.8	761.7	757.6	770.0	782.3	757.6	742.5	807.0	789.2	798.8
45°	4424.9	1851.5	727.4	702.7	721.9	743.9	727.4	708.2	730.2	647.8	641.0
47.5°	4490.8	1832.3	697.2	649.2	683.5	721.9	687.6	641.0	609.4	538.0	532.5
50°	4497.6	1822.7	661.5	594.3	638.2	679.4	639.6	575.1	529.8	498.2	494.1
52.5°	4533.3	1841.9	612.1	524.3	572.3	638.2	610.8	546.2	484.5	457.0	451.5
55°	4692.5	1922.9	529.8	428.2	498.2	606.6	587.4	487.2	428.2	411.7	407.6
57.5°	4857.2	1939.3	417.2	339.0	433.7	561.3	536.6	448.8	391.2	371.9	367.8
60°	4441.4	1597.6	312.9	280.0	382.9	518.8	496.8	425.5	358.2	334.9	330.8
62.5°	2917.9	863.3	248.4	237.4	322.5	439.2	452.9	384.3	319.8	295.1	293.7
65°	1345.0	400.8	190.8	188.0	252.5	350.0	389.8	336.3	270.4	248.4	248.4
67.5°	366.5	199.0	149.6	138.6	171.6	234.7	284.1	251.2	192.1	166.1	164.7
70°	182.5	160.6	134.5	119.4	123.5	145.5	167.4	140.0	97.4	79.6	78.2
72.5°	149.6	131.8	113.9	101.6	93.3	89.2	86.5	70.0	45.3	34.3	32.9
75°	111.2	94.7	81.0	65.9	56.3	52.2	46.7	34.3	19.2	11.0	9.6
77.5°	24.7	23.3	22.0	16.5	15.1	12.4	9.6	6.9	2.7	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	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)