

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: P639368

Luminaire Tested: GWS-SA5B-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639368
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-SA5B-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10640.8 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

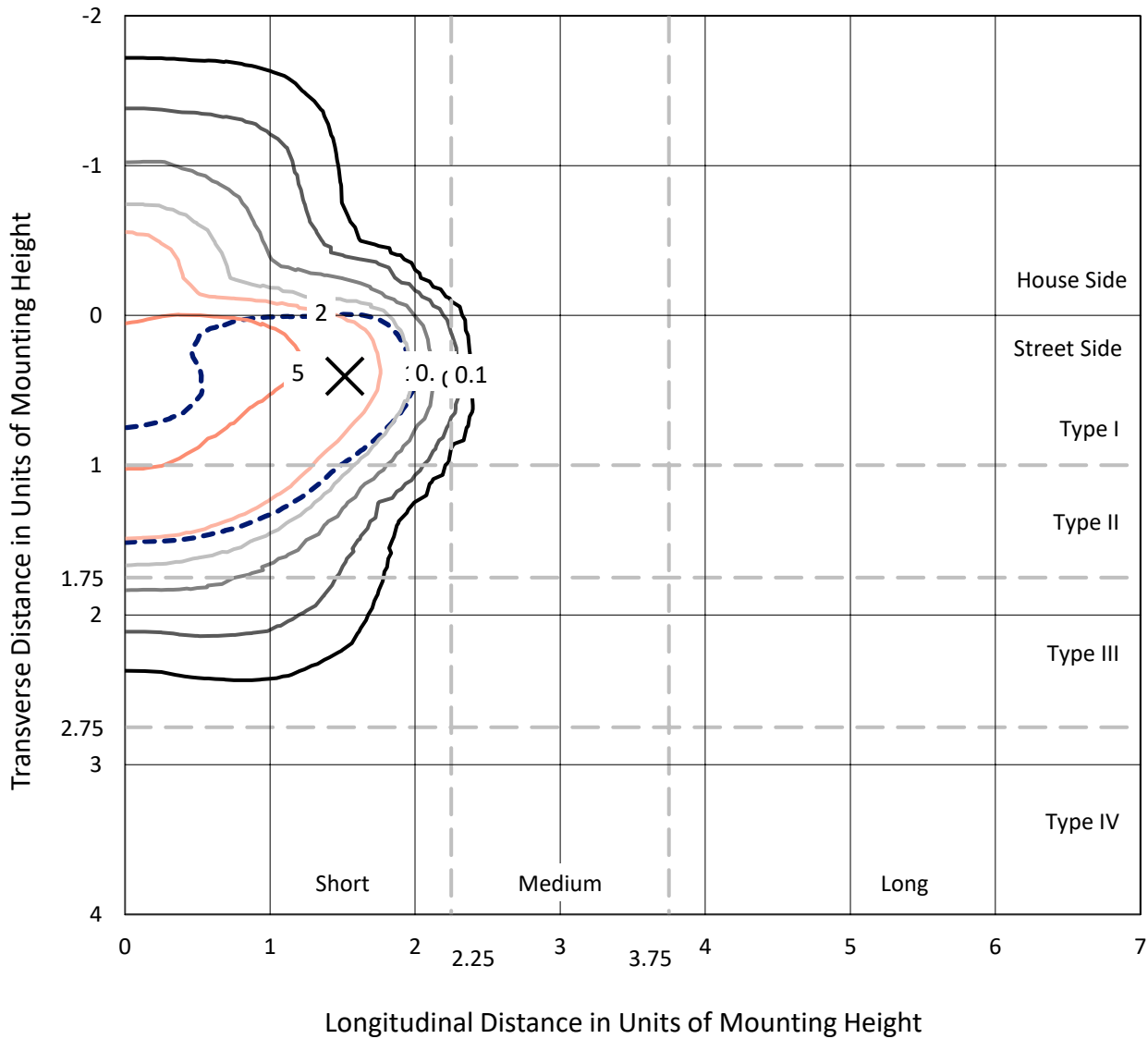
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

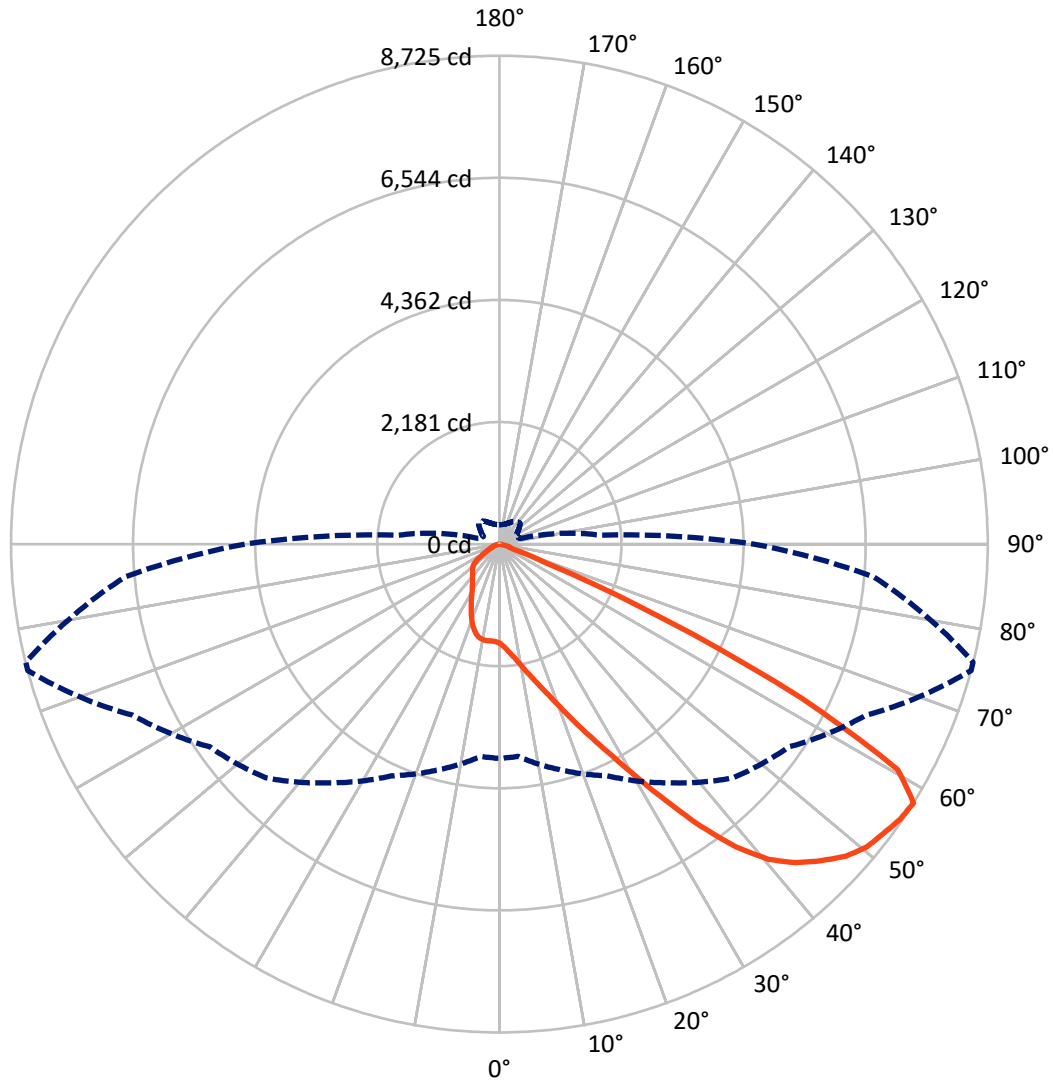
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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	1738.2	0.0	1738.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	8902.7	0.0	8902.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	10640.8	0.0	10640.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.7
10°-20°	586.7	5.5
20°-30°	1074.3	10.1
30°-40°	1782.3	16.8
40°-50°	2722.1	25.6
50°-60°	3058.7	28.7
60°-70°	1128.2	10.6
70°-80°	107.8	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°	10640.8	100.0
0°-180°	10640.8	100.0

Coefficient of Utilization



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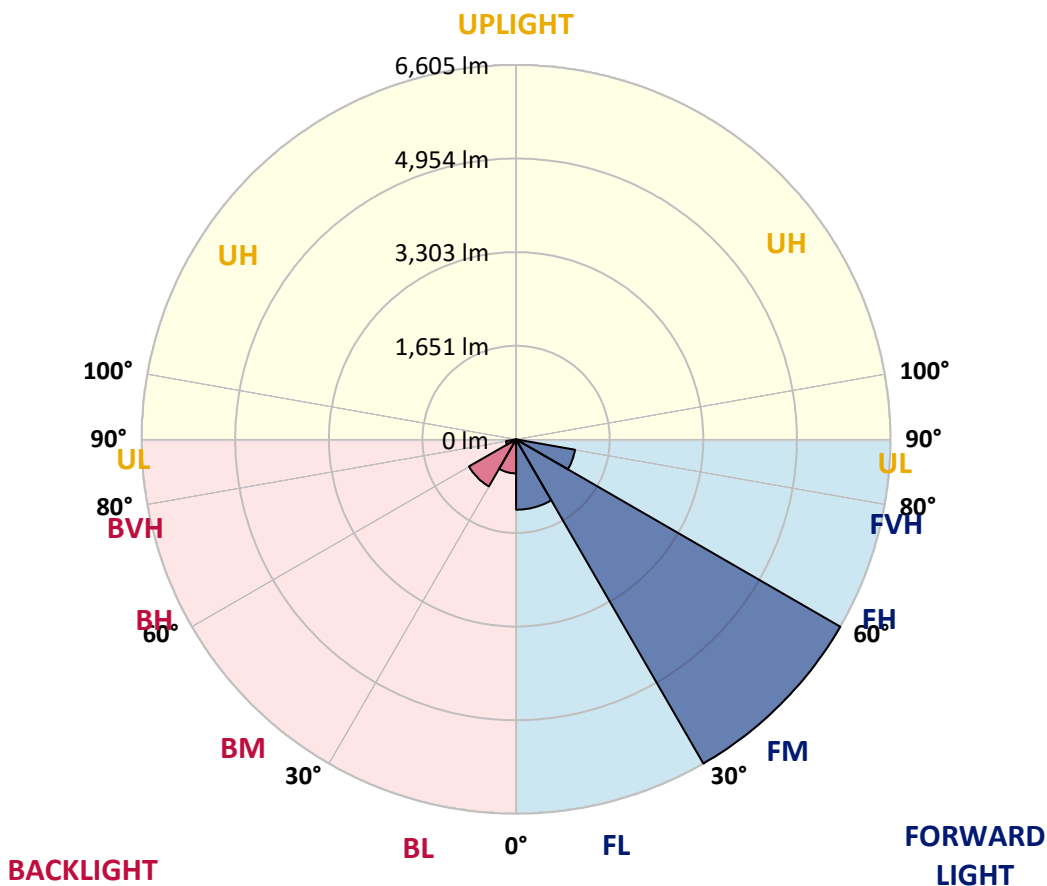
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.8	11.7			
FM (30°-60°)	6605.3	62.1			
FH (60°-80°)	1055.5	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	599.8	5.6	B2/1000		
BM (30°-60°)	957.8	9.0	B1/1000		
BH (60°-80°)	180.5	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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1982.8	2003.3	1996.9	1984.1	1976.4	1949.4	1932.7	1883.9	1849.2	1845.4	1813.3
5°	2233.2	2229.3	2224.2	2208.8	2195.9	2153.6	2103.5	2021.3	1948.1	1939.1	1871.1
7.5°	2370.6	2373.2	2375.7	2373.2	2364.2	2332.1	2276.9	2180.5	2068.8	2061.1	1953.2
10°	2427.1	2432.2	2445.1	2469.5	2491.3	2488.7	2456.6	2357.8	2220.3	2207.5	2062.4
12.5°	2454.1	2460.5	2481.0	2527.3	2586.3	2632.6	2637.7	2549.1	2397.6	2377.0	2192.1
15°	2491.3	2497.7	2523.4	2583.8	2669.8	2761.0	2820.1	2763.6	2594.0	2572.2	2334.6
17.5°	2508.0	2517.0	2554.2	2633.9	2745.6	2885.6	3019.1	3014.0	2826.5	2809.8	2500.3
20°	2540.1	2546.5	2579.9	2666.0	2800.8	3002.4	3227.1	3308.0	3110.3	3085.9	2700.6
22.5°	2641.6	2644.1	2659.5	2713.5	2839.3	3087.2	3439.0	3650.9	3445.5	3413.4	2925.4
25°	2807.2	2805.9	2812.4	2821.3	2913.8	3173.2	3643.2	4037.5	3829.4	3794.8	3179.6
27.5°	3017.8	3017.8	3033.2	3007.6	3044.8	3279.8	3844.8	4481.8	4276.3	4227.5	3458.3
30°	3265.7	3264.4	3300.3	3259.2	3270.8	3448.0	4061.9	4965.9	4815.7	4755.3	3779.3
32.5°	3602.1	3594.4	3635.5	3579.0	3540.5	3702.3	4326.4	5471.9	5461.6	5369.2	4182.6
35°	4027.2	4014.3	4027.2	3972.0	3902.6	4058.0	4673.1	5976.6	6178.2	6080.6	4662.9
37.5°	4449.7	4490.8	4504.9	4409.9	4353.4	4508.8	5090.5	6428.6	6862.7	6761.2	5162.4
40°	4947.9	4935.1	4983.9	4877.3	4841.4	5013.4	5498.9	6765.1	7404.6	7308.3	5606.7
42.5°	5315.2	5338.3	5398.7	5339.6	5311.4	5473.2	5841.7	6961.5	7780.8	7685.8	5923.9
45°	5755.7	5772.4	5795.5	5746.7	5717.2	5876.4	6089.6	7047.6	8067.2	7964.5	6137.1
47.5°	6232.1	6245.0	6245.0	6144.8	6049.8	6115.3	6255.2	7096.4	8330.5	8231.6	6295.1
50°	6573.7	6580.1	6636.6	6566.0	6359.3	6257.8	6331.0	7143.9	8505.1	8412.7	6346.4
52.5°	6270.7	6262.9	6449.2	6595.6	6650.8	6449.2	6462.0	7213.2	8589.9	8510.3	6387.5
55°	5280.5	5267.7	5529.7	5885.4	6372.1	6630.2	6619.9	7254.3	8683.6	8634.8	6536.5
57.5°	3828.1	3806.3	4171.0	4566.5	5204.8	5904.7	6315.6	7231.2	8724.7	8720.9	6709.8
60°	2301.3	2283.3	2627.4	3043.5	3536.6	4240.4	4922.3	6477.4	8175.1	8182.8	6259.1
62.5°	1416.5	1433.1	1743.9	1955.8	2139.4	2351.3	2745.6	4357.2	6056.2	6106.3	4398.3
65°	952.9	965.7	1253.4	1520.5	1520.5	1243.1	1067.2	2082.9	3231.0	3146.2	2080.4
67.5°	639.5	653.6	880.9	1193.0	1237.9	866.8	432.8	621.5	900.2	873.2	515.0
70°	376.3	391.7	586.9	818.0	901.5	603.6	288.9	263.3	255.6	247.8	200.3
72.5°	168.2	174.6	299.2	416.1	380.1	254.3	204.2	210.6	199.0	195.2	163.1
75°	51.4	53.9	77.1	89.9	91.2	91.2	123.3	165.7	156.7	158.0	125.8
77.5°	12.8	12.8	20.5	19.3	10.3	9.0	23.1	37.2	38.5	34.7	25.7
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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1799.1	1765.7	1743.9	1713.1	1691.3	1668.2	1647.6	1630.9	1621.9	1619.4	1620.6
5°	1840.2	1787.6	1736.2	1677.1	1636.0	1597.5	1566.7	1542.3	1530.7	1526.9	1526.9
7.5°	1903.2	1830.0	1738.8	1646.3	1577.0	1516.6	1480.7	1453.7	1443.4	1440.9	1433.1
10°	1985.3	1885.2	1734.9	1591.1	1493.5	1430.6	1404.9	1397.2	1401.0	1402.3	1401.0
12.5°	2084.2	1943.0	1710.5	1510.2	1404.9	1366.4	1368.9	1389.5	1412.6	1424.2	1426.7
15°	2189.5	1995.6	1655.3	1413.9	1329.1	1327.8	1365.1	1412.6	1457.5	1476.8	1481.9
17.5°	2307.7	2038.0	1570.6	1311.1	1263.6	1300.9	1367.7	1440.9	1501.2	1533.3	1539.7
20°	2437.4	2072.7	1462.7	1214.8	1205.8	1272.6	1365.1	1455.0	1529.5	1565.4	1571.8
22.5°	2572.2	2097.1	1338.1	1126.2	1153.2	1240.5	1340.7	1428.0	1498.6	1539.7	1544.9
25°	2726.3	2099.6	1211.0	1051.7	1104.4	1196.9	1281.6	1353.5	1412.6	1448.6	1452.4
27.5°	2861.2	2068.8	1098.0	991.4	1059.4	1142.9	1199.4	1239.2	1280.3	1300.9	1302.2
30°	3016.5	2014.9	991.4	942.6	1013.2	1076.1	1104.4	1113.4	1117.2	1121.1	1116.0
32.5°	3201.5	1949.4	911.8	895.1	960.6	1002.9	1010.6	992.7	970.8	940.0	932.3
35°	3428.8	1890.3	846.3	848.8	902.8	928.5	922.0	883.5	841.1	803.9	797.5
37.5°	3675.3	1840.2	796.2	803.9	839.9	857.8	838.6	796.2	776.9	744.8	746.1
40°	3893.6	1799.1	751.2	759.0	775.6	792.3	761.5	733.3	769.2	766.7	769.2
42.5°	4049.0	1764.5	712.7	708.9	720.4	732.0	708.9	694.7	755.1	738.4	747.4
45°	4140.2	1732.4	680.6	657.5	675.5	696.0	680.6	662.6	683.2	606.1	599.7
47.5°	4201.8	1714.4	652.4	607.4	639.5	675.5	643.4	599.7	570.2	503.4	498.3
50°	4208.3	1705.4	619.0	556.1	597.1	635.7	598.4	538.1	495.7	466.2	462.3
52.5°	4241.6	1723.4	572.7	490.6	535.5	597.1	571.5	511.1	453.3	427.6	422.5
55°	4390.6	1799.1	495.7	400.7	466.2	567.6	549.6	455.9	400.7	385.3	381.4
57.5°	4544.7	1814.5	390.4	317.2	405.8	525.2	502.1	419.9	366.0	348.0	344.2
60°	4155.6	1494.8	292.8	262.0	358.3	485.4	464.9	398.1	335.2	313.3	309.5
62.5°	2730.2	807.7	232.4	222.2	301.8	410.9	423.8	359.6	299.2	276.1	274.8
65°	1258.5	375.0	178.5	175.9	236.3	327.5	364.7	314.6	253.0	232.4	232.4
67.5°	342.9	186.2	140.0	129.7	160.5	219.6	265.8	235.0	179.8	155.4	154.1
70°	170.8	150.2	125.8	111.7	115.6	136.1	156.7	131.0	91.2	74.5	73.2
72.5°	140.0	123.3	106.6	95.0	87.3	83.5	80.9	65.5	42.4	32.1	30.8
75°	104.0	88.6	75.8	61.6	52.7	48.8	43.7	32.1	18.0	10.3	9.0
77.5°	23.1	21.8	20.5	15.4	14.1	11.6	9.0	6.4	2.6	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)