

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: P632757

Luminaire Tested: GWS-SA2D-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9073.7 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

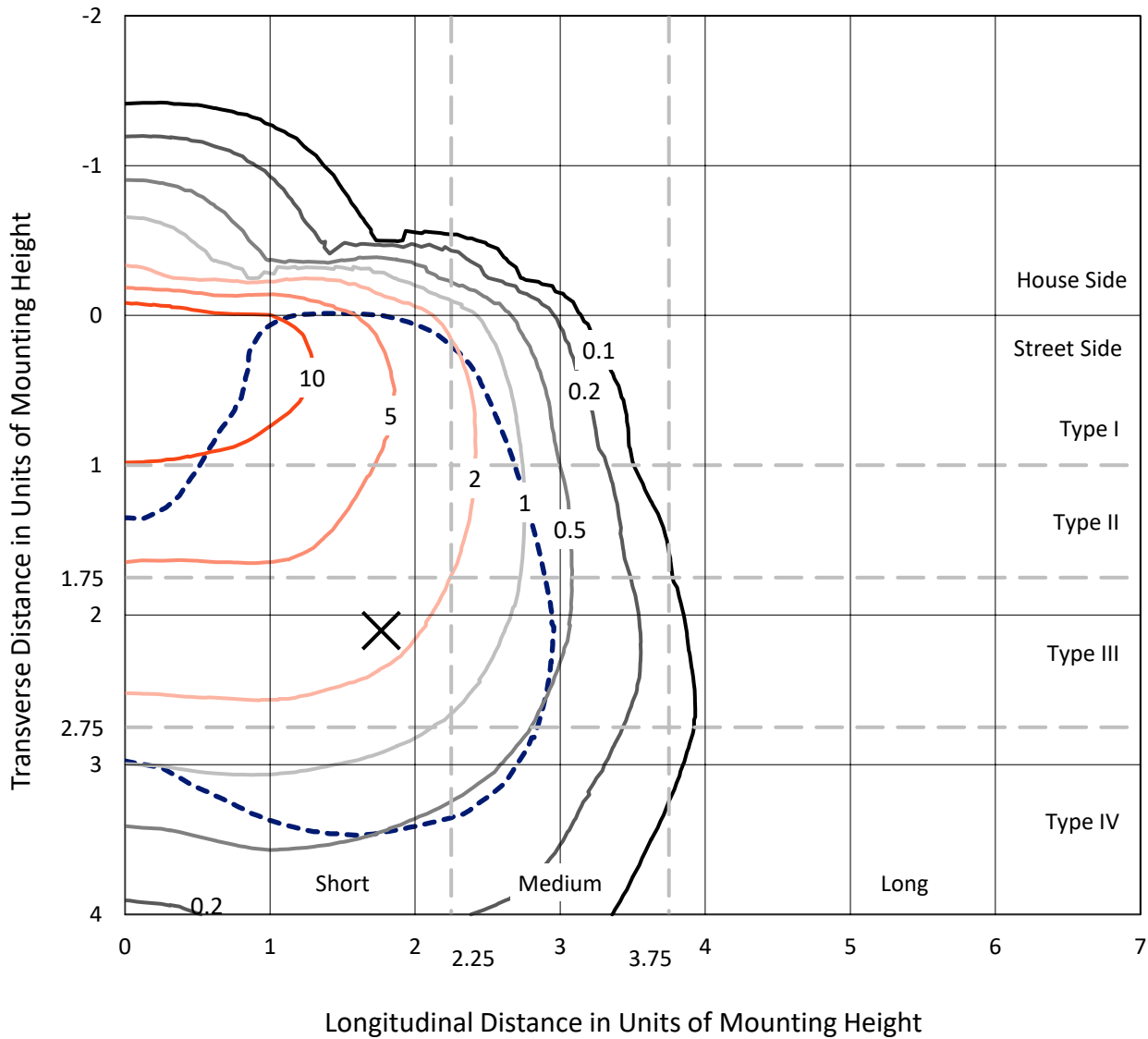
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

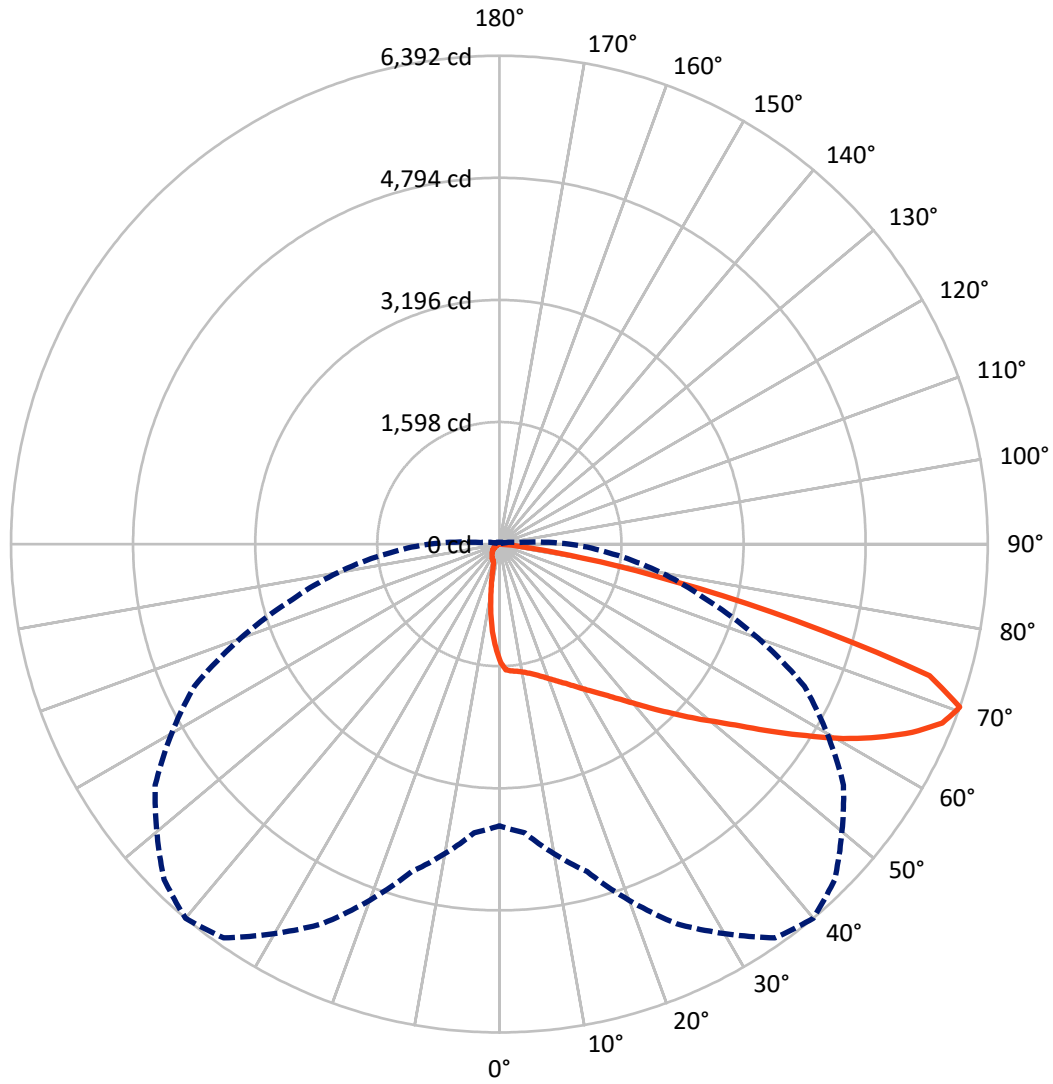
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.0	0.0	742.0
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	8331.7	0.0	8331.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	9073.7	0.0	9073.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.4
10°-20°	330.1	3.6
20°-30°	552.4	6.1
30°-40°	867.6	9.6
40°-50°	1372.4	15.1
50°-60°	2001.9	22.1
60°-70°	2481.7	27.4
70°-80°	1255.6	13.8
80°-90°	82.0	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°	9073.7	100.0
0°-180°	9073.7	100.0

Coefficient of Utilization



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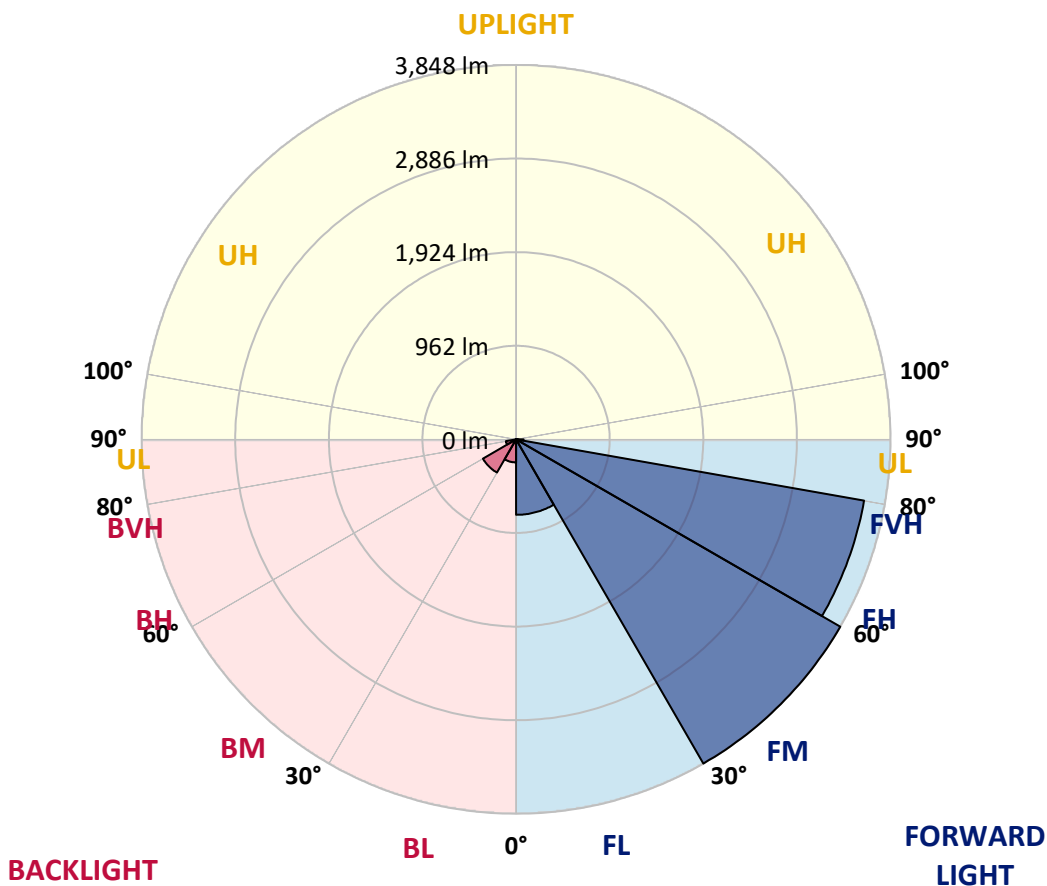
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.6	8.5			
FM (30°-60°)	3848.1	42.4			
FH (60°-80°)	3631.5	40.0			G2/5000
FVH (80°-90°)	76.6	0.8			G1/100
BL (0°-30°)	237.0	2.6	B1/500		
BM (30°-60°)	393.8	4.3	B1/1000		
BH (60°-80°)	105.8	1.2	B0/110		G0/110
BVH (80°-90°)	5.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1655.3	1661.1	1660.2	1662.7	1656.9	1647.8	1646.2	1633.8	1611.5	1583.5	1552.1
5°	1689.1	1695.7	1690.8	1688.3	1677.6	1667.7	1665.2	1652.0	1626.4	1588.4	1533.9
7.5°	1718.0	1719.7	1716.4	1710.6	1694.9	1681.7	1672.6	1654.5	1623.9	1585.9	1523.2
10°	1723.0	1722.2	1723.8	1724.6	1714.7	1703.2	1695.7	1671.0	1632.2	1591.7	1524.0
12.5°	1717.2	1717.2	1727.9	1740.3	1740.3	1734.5	1727.1	1704.8	1659.4	1611.5	1540.5
15°	1724.6	1727.1	1747.7	1770.9	1778.3	1772.5	1769.2	1746.1	1699.0	1646.2	1570.2
17.5°	1751.0	1753.5	1786.5	1821.2	1830.3	1823.7	1817.1	1794.0	1743.6	1685.8	1604.1
20°	1789.8	1796.5	1838.6	1883.1	1891.4	1883.1	1869.9	1837.7	1787.4	1728.8	1636.3
22.5°	1860.8	1865.0	1910.4	1957.4	1961.6	1948.4	1928.5	1884.0	1831.1	1774.2	1672.6
25°	1955.0	1960.7	2006.1	2051.6	2040.8	2021.0	1993.8	1943.4	1883.1	1827.8	1718.8
27.5°	2067.2	2073.8	2118.4	2158.1	2130.0	2106.9	2076.3	2013.6	1952.5	1902.1	1778.3
30°	2188.6	2194.4	2234.0	2269.5	2232.4	2205.1	2168.8	2104.4	2042.5	2004.5	1862.5
32.5°	2305.8	2305.0	2343.0	2371.9	2333.9	2312.4	2279.4	2214.2	2164.7	2148.1	1988.0
35°	2414.8	2414.8	2446.2	2475.1	2447.8	2436.3	2405.7	2353.7	2325.6	2345.5	2155.6
37.5°	2524.6	2518.8	2548.6	2580.7	2578.3	2579.1	2561.8	2537.0	2538.6	2608.8	2385.9
40°	2615.4	2612.9	2647.6	2689.7	2722.7	2749.2	2738.4	2747.5	2799.5	2930.8	2680.6
42.5°	2688.1	2693.9	2738.4	2805.3	2888.7	2942.4	2949.8	2986.9	3120.7	3323.8	3013.4
45°	2771.5	2772.3	2834.2	2936.6	3069.5	3154.5	3184.2	3280.0	3469.9	3731.6	3378.3
47.5°	2873.8	2863.9	2933.3	3076.9	3269.3	3394.8	3447.6	3567.3	3861.2	4129.5	3675.5
50°	2986.9	2968.8	3047.2	3242.9	3493.0	3649.9	3757.2	3932.2	4249.2	4456.5	3896.7
52.5°	3118.2	3100.9	3190.0	3433.6	3761.3	3952.0	4089.9	4266.6	4581.9	4705.8	4028.8
55°	3285.0	3267.6	3361.7	3662.3	4078.3	4326.0	4470.5	4619.1	4891.5	4889.9	4124.6
57.5°	3469.9	3446.0	3576.4	3951.2	4473.8	4731.4	4878.3	4951.0	5126.8	5032.7	4189.0
60°	3682.1	3660.6	3841.4	4295.5	4930.3	5168.9	5261.4	5231.7	5320.0	5116.9	4166.7
62.5°	3873.6	3863.7	4088.2	4660.4	5365.4	5566.9	5592.4	5462.8	5462.0	5118.6	4016.4
65°	4072.6	4091.6	4425.1	5080.6	5803.0	5938.4	5894.6	5692.3	5519.0	4916.3	3572.3
67.5°	4146.9	4202.2	4647.2	5460.4	6148.1	6253.7	6177.0	5807.1	5282.0	4236.0	2720.3
70°	3687.8	3791.9	4437.5	5481.8	6290.9	6391.6	6207.5	5498.3	4403.6	2806.1	1490.2
72.5°	2804.5	2925.8	3697.8	4488.7	5657.7	5887.2	5572.6	4479.6	2838.3	1229.3	500.3
75°	1569.4	1700.7	2754.1	3379.9	3798.5	4008.2	3892.6	2873.8	1257.4	321.1	149.4
77.5°	530.8	574.6	1281.3	2091.2	2507.3	2319.0	1963.2	1427.4	462.3	122.2	79.3
80°	314.5	331.1	477.2	1041.1	1319.3	1093.9	863.6	527.5	235.3	65.2	55.3
82.5°	94.1	111.5	263.4	386.4	516.8	322.0	272.4	301.3	122.2	35.5	46.2
85°	0.0	0.0	56.1	119.7	135.4	52.8	52.8	170.9	22.3	14.9	33.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.1	2.5	3.3	7.4
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°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1529.8	1500.9	1467.0	1434.9	1404.3	1364.7	1345.7	1322.6	1302.8	1292.0	1297.8
5°	1499.2	1453.8	1384.5	1314.3	1243.3	1176.4	1116.2	1075.7	1039.4	1020.4	1024.5
7.5°	1472.8	1411.7	1303.6	1188.8	1074.9	960.1	866.9	794.2	738.1	714.9	710.8
10°	1461.3	1384.5	1231.8	1066.6	891.6	737.2	605.1	525.1	468.1	440.0	445.0
12.5°	1467.0	1370.5	1170.7	946.9	719.9	539.9	413.6	338.5	298.0	281.5	277.4
15°	1483.6	1367.2	1116.2	824.7	555.6	377.3	285.6	255.1	246.8	245.2	245.2
17.5°	1502.5	1368.0	1060.0	700.9	421.9	279.9	244.4	238.6	236.1	234.5	235.3
20°	1521.5	1368.0	995.6	575.4	317.0	241.9	232.8	228.7	226.2	225.4	225.4
22.5°	1544.7	1368.0	923.8	459.0	254.3	229.5	222.1	219.6	217.1	216.3	215.5
25°	1572.7	1368.8	844.6	359.1	231.2	218.8	213.0	210.5	208.0	206.4	206.4
27.5°	1613.2	1375.4	757.1	279.9	218.0	208.9	203.9	201.4	199.0	196.5	196.5
30°	1671.8	1391.9	658.8	231.2	205.6	198.1	193.2	191.5	189.1	186.6	185.8
32.5°	1759.3	1420.8	557.3	207.2	194.0	186.6	180.8	179.1	176.7	174.2	173.4
35°	1881.5	1473.7	458.2	192.4	179.1	171.7	168.4	167.6	164.3	161.8	161.8
37.5°	2060.6	1559.5	363.3	177.5	166.8	161.0	156.9	155.2	151.9	149.4	148.6
40°	2279.4	1671.0	282.3	165.9	155.2	149.4	145.3	142.8	138.7	135.4	133.7
42.5°	2558.5	1807.2	222.9	153.6	144.5	138.7	135.4	130.4	124.7	119.7	118.9
45°	2849.1	1947.5	184.1	142.0	134.6	129.6	125.5	118.9	110.6	104.8	103.2
47.5°	3072.0	2035.0	161.0	129.6	123.8	119.7	114.8	106.5	96.6	90.0	88.3
50°	3231.3	2048.3	143.7	118.1	114.8	110.6	103.2	93.3	82.6	76.0	74.3
52.5°	3309.7	1988.8	129.6	107.3	104.8	100.7	91.6	80.9	69.3	62.7	61.1
55°	3345.2	1876.5	116.4	98.2	94.9	90.0	80.1	68.5	57.0	51.2	49.5
57.5°	3331.2	1710.6	104.8	89.2	85.0	79.3	68.5	56.1	47.1	41.3	40.5
60°	3227.2	1477.8	93.3	80.1	75.1	68.5	57.8	46.2	38.0	33.8	33.0
62.5°	3002.6	1188.8	81.7	69.3	66.0	59.4	49.5	38.0	31.4	28.9	28.1
65°	2542.8	840.4	70.2	58.6	57.0	50.4	41.3	31.4	27.2	25.6	24.8
67.5°	1827.8	511.0	59.4	50.4	48.7	42.9	34.7	27.2	24.8	23.9	23.9
70°	918.9	241.9	47.1	41.3	41.3	35.5	29.7	24.8	23.9	23.1	23.1
72.5°	312.1	103.2	35.5	32.2	33.8	30.5	25.6	23.1	23.1	23.1	23.1
75°	106.5	54.5	24.8	23.1	24.8	24.8	22.3	22.3	23.1	23.1	23.1
77.5°	69.3	36.3	17.3	15.7	19.0	19.0	19.0	20.6	22.3	22.3	22.3
80°	57.0	19.8	11.6	10.7	14.0	14.0	15.7	19.0	20.6	20.6	20.6
82.5°	48.7	12.4	6.6	7.4	9.9	10.7	13.2	15.7	18.2	19.0	19.0
85°	33.0	6.6	5.0	5.8	6.6	8.3	10.7	13.2	14.9	16.5	16.5
87.5°	9.1	2.5	3.3	4.1	4.1	5.8	8.3	9.9	11.6	12.4	12.4
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)