

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: P638822

Luminaire Tested: GWS-SA4F-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23330.9 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

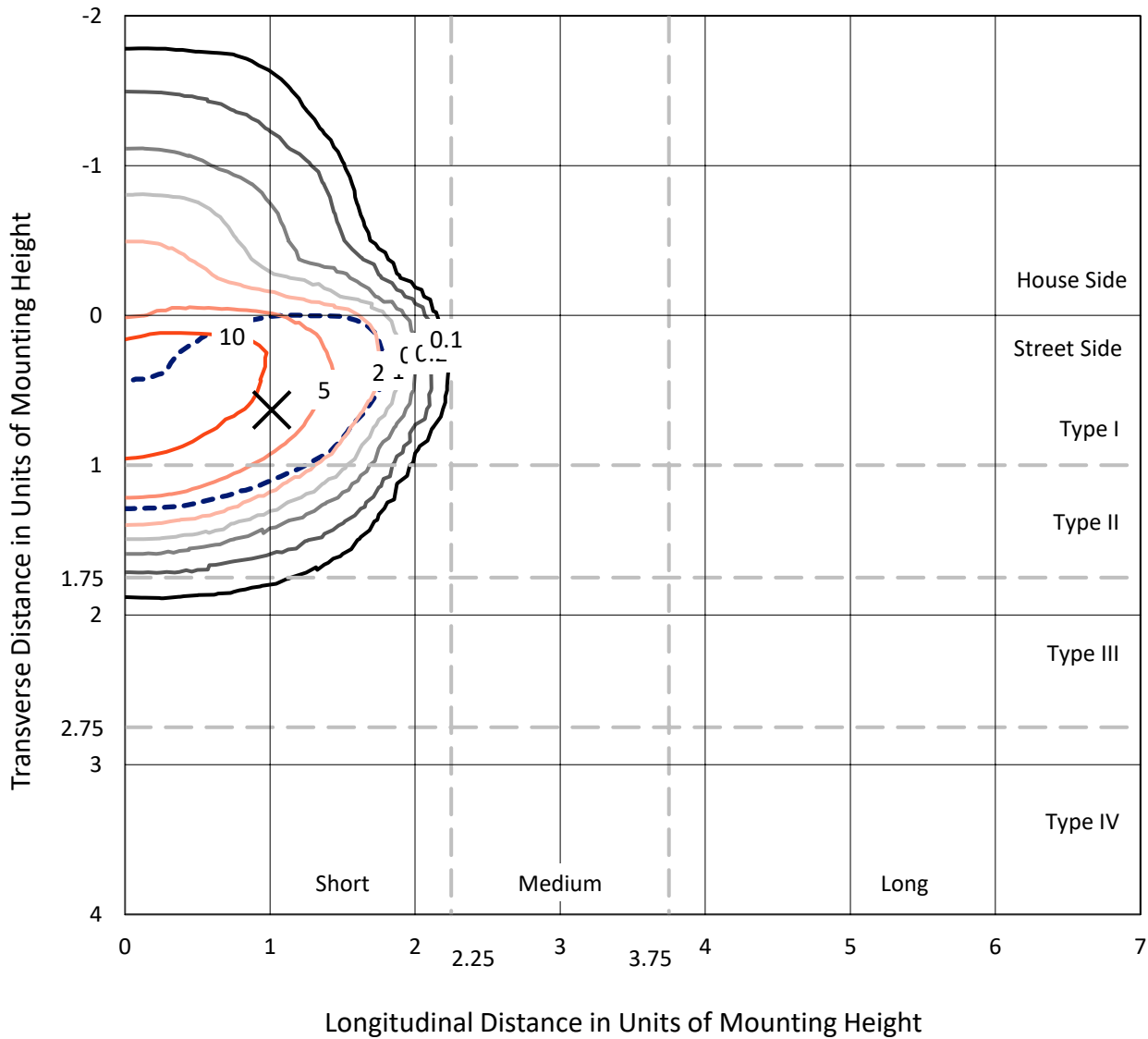
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

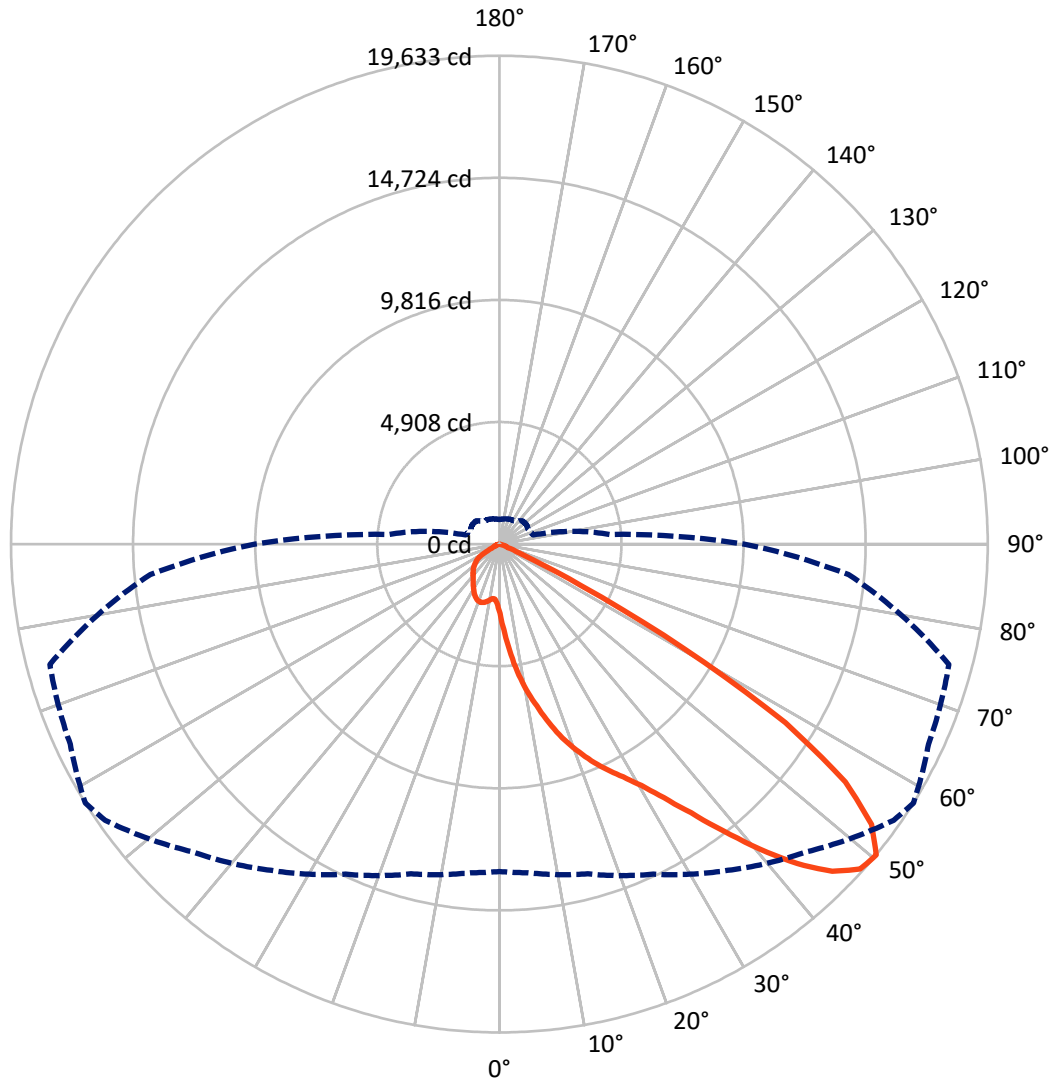
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3267.8	0.0	3267.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20063.1	0.0	20063.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	23330.9	0.0	23330.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	1.5
10°-20°	1366.7	5.9
20°-30°	2765.6	11.9
30°-40°	4892.7	21.0
40°-50°	7132.5	30.6
50°-60°	5716.9	24.5
60°-70°	1029.9	4.4
70°-80°	81.2	0.3
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°	23330.9	100.0
0°-180°	23330.9	100.0

Coefficient of Utilization



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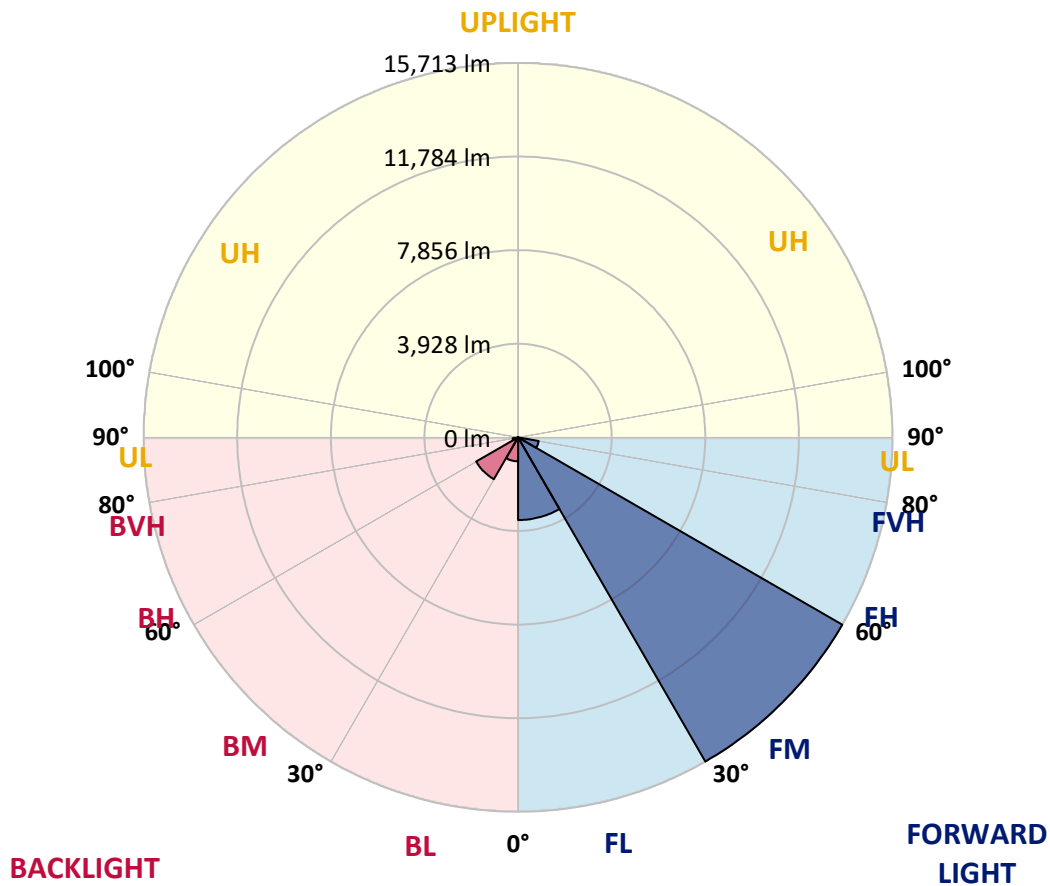
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3471.6	14.9			
FM (30°-60°)	15712.7	67.3			
FH (60°-80°)	878.9	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1006.0	4.3	B3/2500		
BM (30°-60°)	2029.5	8.7	B2/2500		
BH (60°-80°)	232.3	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8
2.5°	4124.1	4059.2	4021.8	3991.9	3859.7	3650.1	3512.9	3440.5	3320.8	3118.7	2944.0
5°	5381.6	5334.2	5246.8	5187.0	5017.3	4720.4	4413.5	4291.3	4019.3	3562.8	3153.6
7.5°	6214.9	6179.9	6147.5	6067.7	5908.0	5638.5	5299.2	5172.0	4752.8	4104.2	3433.0
10°	6856.1	6828.6	6791.2	6788.7	6664.0	6421.9	6090.1	5957.9	5503.8	4693.0	3762.4
12.5°	7419.9	7397.5	7390.0	7459.8	7380.0	7200.4	6841.1	6676.4	6194.9	5294.2	4126.6
15°	7806.6	7801.6	7834.1	7971.3	8016.2	7933.9	7632.0	7454.8	6901.0	5898.0	4528.3
17.5°	7983.8	7998.7	8061.1	8298.1	8497.7	8567.6	8335.6	8185.9	7602.0	6509.3	4957.4
20°	8285.7	8280.7	8318.1	8542.6	8787.1	9036.6	8966.8	8839.5	8310.6	7155.5	5434.0
22.5°	9136.4	9064.1	8984.2	9019.2	9106.5	9398.4	9528.1	9463.3	9041.6	7819.1	5925.5
25°	10443.8	10368.9	10111.9	9862.5	9697.8	9830.0	10007.2	10039.6	9767.6	8500.2	6439.4
27.5°	11831.0	11763.6	11474.2	11099.9	10628.4	10398.9	10531.1	10596.0	10481.2	9311.1	6985.8
30°	13130.8	13041.0	12724.1	12260.1	11713.7	11361.9	11212.2	11257.1	11324.5	10271.6	7627.0
32.5°	14258.5	14191.2	13811.9	13322.9	12796.5	12429.7	12080.4	12155.3	12320.0	11446.7	8447.8
35°	15214.1	15179.1	14777.5	14291.0	13734.6	13547.5	13248.1	13263.0	13427.7	12866.4	9448.3
37.5°	16044.9	15985.0	15620.8	15169.2	14727.6	14697.6	14615.3	14622.8	14707.6	14520.5	10598.5
40°	16568.8	16513.9	16254.5	15975.0	15660.7	15665.7	16092.3	16124.7	16027.4	16144.7	11813.5
42.5°	16765.9	16726.0	16586.3	16588.8	16556.4	16703.6	17504.4	17564.3	17215.0	17419.6	12851.4
45°	16424.1	16406.7	16416.6	16775.9	17165.1	17619.2	18659.6	18764.4	18270.4	18265.4	13662.2
47.5°	15321.4	15286.4	15578.3	16189.6	17090.3	17973.5	19358.2	19520.3	19008.9	18749.4	14171.2
50°	13160.8	13260.5	13722.1	14640.2	16010.0	17487.0	19350.7	19632.6	19036.3	18707.0	14086.4
52.5°	9533.1	9513.2	10523.6	11786.0	13452.7	15930.1	18322.8	18734.4	18370.2	18290.3	13896.8
55°	5187.0	5369.1	6050.2	7721.8	9802.6	12983.6	15975.0	16873.2	17294.8	18138.1	14238.6
57.5°	1906.1	1986.0	2412.6	3595.2	5189.5	8073.6	12202.7	13557.4	14859.8	17714.0	14181.2
60°	768.4	783.4	953.1	1322.3	2180.6	4109.1	7320.1	8522.7	9750.2	13559.9	10882.9
62.5°	558.9	578.8	646.2	773.4	1102.8	1796.3	3156.1	3670.0	4011.8	6716.3	5361.6
65°	451.6	466.6	521.4	578.8	728.5	965.5	1017.9	980.5	975.5	1736.5	1230.0
67.5°	374.2	389.2	429.1	469.0	523.9	481.5	349.3	366.8	299.4	296.9	242.0
70°	274.4	291.9	331.8	374.2	314.4	129.7	202.1	299.4	227.0	189.6	184.6
72.5°	207.1	219.6	257.0	244.5	92.3	49.9	134.7	217.1	174.6	139.7	137.2
75°	154.7	162.2	129.7	39.9	10.0	12.5	49.9	89.8	97.3	79.8	79.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	7.5	10.0	12.5	15.0
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8	2786.8
2.5°	2844.2	2739.4	2589.7	2465.0	2370.2	2277.9	2208.0	2138.2	2135.7	2100.7	2093.2
5°	2964.0	2774.4	2499.9	2302.8	2183.1	2110.7	2060.8	2035.9	2023.4	2010.9	2005.9
7.5°	3136.1	2864.2	2484.9	2275.4	2175.6	2128.2	2093.2	2078.3	2070.8	2060.8	2058.3
10°	3348.2	2993.9	2539.8	2327.8	2240.4	2195.5	2158.1	2135.7	2123.2	2105.7	2100.7
12.5°	3602.7	3153.6	2627.2	2415.1	2322.8	2262.9	2213.0	2180.6	2163.1	2140.6	2135.7
15°	3877.1	3325.7	2724.5	2494.9	2385.2	2307.8	2245.4	2195.5	2163.1	2135.7	2128.2
17.5°	4161.5	3500.4	2811.8	2549.8	2415.1	2322.8	2233.0	2165.6	2125.7	2090.8	2080.8
20°	4480.9	3680.0	2869.2	2559.8	2405.1	2282.9	2178.1	2093.2	2053.3	2005.9	1995.9
22.5°	4815.2	3847.2	2894.1	2537.3	2350.2	2208.0	2095.7	2008.4	1951.0	1901.1	1886.2
25°	5139.6	3996.9	2881.6	2475.0	2267.9	2103.2	1988.5	1898.6	1836.3	1786.4	1773.9
27.5°	5483.9	4121.6	2836.7	2382.7	2155.6	1988.5	1878.7	1801.3	1744.0	1689.1	1676.6
30°	5870.6	4236.4	2764.4	2270.4	2023.4	1871.2	1786.4	1734.0	1671.6	1614.2	1596.8
32.5°	6337.1	4338.7	2659.6	2135.7	1906.1	1768.9	1721.5	1681.6	1609.2	1549.4	1536.9
35°	6871.0	4423.5	2527.4	1995.9	1791.4	1704.0	1694.1	1641.7	1546.9	1477.0	1462.0
37.5°	7489.8	4505.8	2370.2	1858.7	1706.5	1674.1	1676.6	1586.8	1472.0	1387.2	1377.2
40°	8155.9	4588.2	2195.5	1739.0	1629.2	1656.6	1634.2	1506.9	1319.8	1237.5	1227.5
42.5°	8849.5	4678.0	2018.4	1626.7	1564.3	1589.3	1556.8	1347.3	1212.5	1170.1	1165.1
45°	9475.7	4785.3	1826.3	1514.4	1499.5	1492.0	1437.1	1220.0	1162.6	1132.7	1130.2
47.5°	9927.3	4767.8	1621.7	1407.1	1429.6	1404.6	1237.5	1160.1	1112.7	1072.8	1062.8
50°	9845.0	4463.4	1409.6	1287.4	1339.8	1317.3	1112.7	1090.3	1047.9	1005.5	990.5
52.5°	9635.4	4049.3	1225.0	1160.1	1242.5	1190.1	1027.9	1005.5	968.0	913.1	895.7
55°	9747.7	3660.1	1080.3	1057.8	1142.7	985.5	933.1	898.2	858.3	798.4	790.9
57.5°	9385.9	2986.4	868.2	883.2	1010.4	840.8	818.3	763.4	696.1	656.2	651.2
60°	6496.8	1604.2	543.9	561.4	731.0	706.1	733.5	683.6	601.3	563.9	556.4
62.5°	2983.9	643.7	296.9	284.4	384.2	479.0	628.7	623.7	521.4	461.6	456.6
65°	723.5	294.4	212.1	199.6	217.1	286.9	409.2	491.5	421.6	351.8	344.3
67.5°	234.5	239.5	194.6	182.1	192.1	214.6	244.5	271.9	269.5	247.0	242.0
70°	187.1	217.1	179.6	164.7	164.7	172.2	164.7	132.2	114.8	124.7	129.7
72.5°	139.7	164.7	142.2	127.2	122.3	119.8	102.3	74.8	52.4	47.4	44.9
75°	82.3	92.3	87.3	74.8	69.9	62.4	49.9	32.4	17.5	12.5	7.5
77.5°	15.0	17.5	20.0	15.0	12.5	10.0	7.5	2.5	0.0	0.0	0.0
80°	0.0	2.5	2.5	2.5	0.0	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)