

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: P643670

Luminaire Tested: GWS-SA6F-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30787.5 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

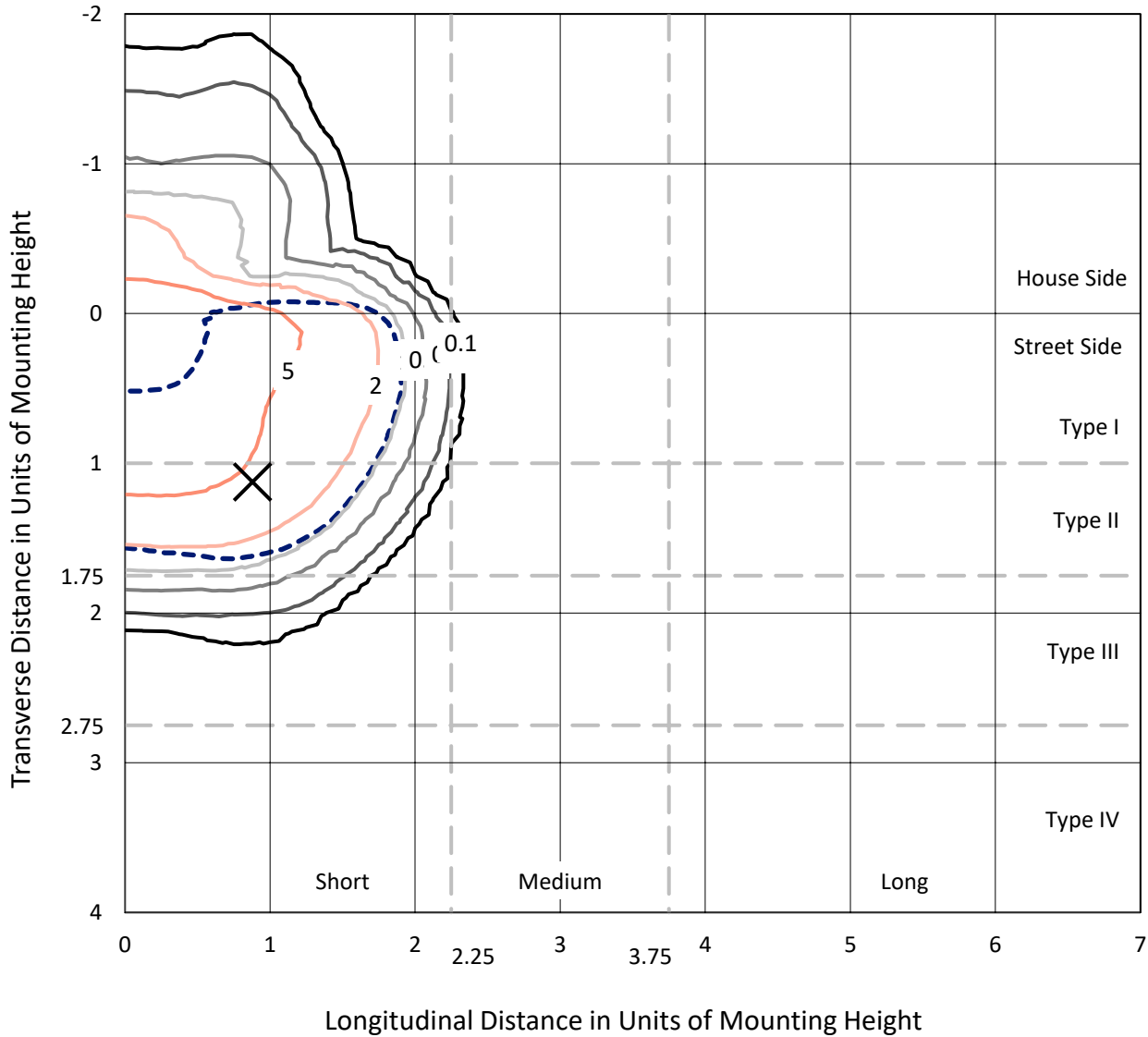
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

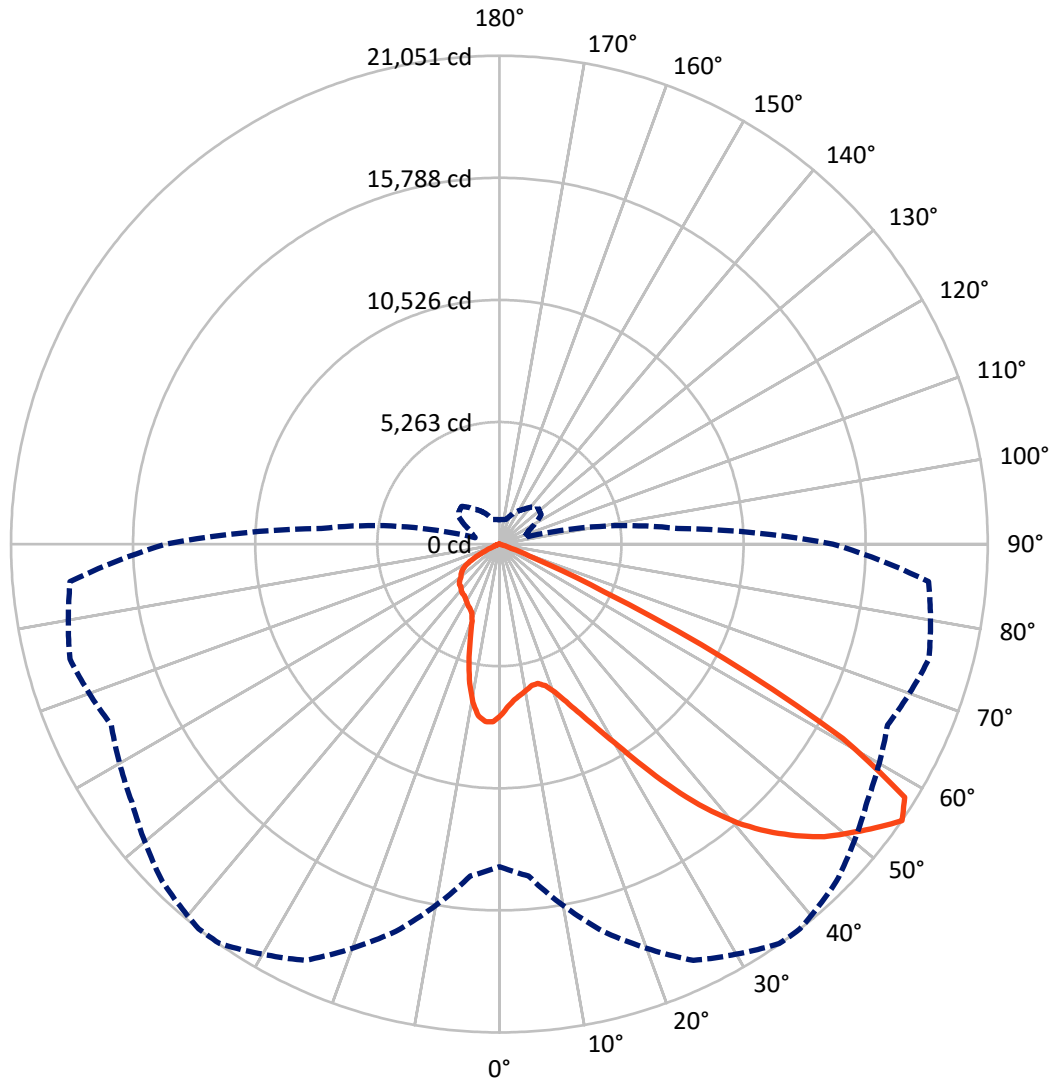
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5998.4	0.0	5998.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	24789.1	0.0	24789.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	30787.5	0.0	30787.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.7	2.2
10°-20°	1837.8	6.0
20°-30°	3153.8	10.2
30°-40°	5230.8	17.0
40°-50°	7689.5	25.0
50°-60°	8985.4	29.2
60°-70°	3045.8	9.9
70°-80°	155.7	0.5
80°-90°	6.1	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°	30787.5	100.0
0°-180°	30787.5	100.0

Coefficient of Utilization

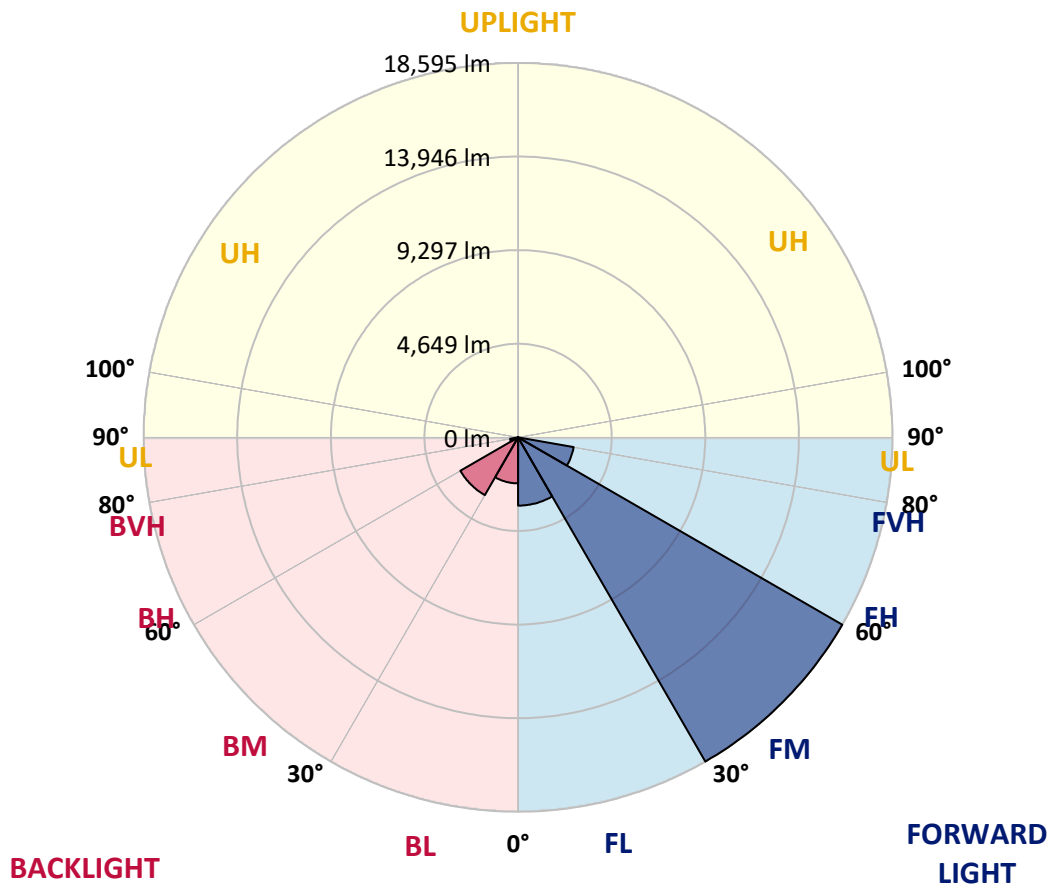


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3389.0	11.0			
FM (30°-60°)	18594.8	60.4			
FH (60°-80°)	2802.1	9.1			G2/5000
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	2285.3	7.4	B3/2500		
BM (30°-60°)	3310.8	10.8	B3/5000		
BH (60°-80°)	399.3	1.3	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1
2.5°	6876.3	6862.3	6890.4	6946.7	6999.5	7017.1	7069.9	7143.8	7189.5	7298.6	7386.6
5°	6566.6	6559.6	6587.8	6637.0	6707.4	6732.0	6813.0	6936.2	7059.3	7249.4	7435.9
7.5°	6285.1	6281.6	6323.8	6432.9	6535.0	6566.6	6665.2	6816.5	6981.9	7274.0	7548.5
10°	5915.6	5919.1	6000.1	6154.9	6341.4	6404.8	6563.1	6781.3	6996.0	7372.5	7752.6
12.5°	5796.0	5803.0	5845.2	5964.9	6169.0	6249.9	6471.6	6802.4	7076.9	7513.3	8016.5
15°	6088.0	6088.0	6052.9	6066.9	6158.4	6232.3	6464.6	6872.8	7214.2	7682.2	8276.9
17.5°	6654.6	6633.5	6545.5	6425.9	6394.2	6418.8	6605.4	7024.1	7407.7	7879.3	8572.5
20°	7421.8	7428.8	7256.4	7006.5	6805.9	6802.4	6915.0	7291.6	7685.7	8115.1	8892.8
22.5°	8350.8	8322.7	8093.9	7752.6	7404.2	7376.0	7421.8	7699.8	8086.9	8488.1	9286.9
25°	9427.7	9413.6	9089.8	8632.4	8171.4	8104.5	8104.5	8379.0	8660.5	9019.5	9758.5
27.5°	10553.8	10553.8	10240.6	9712.7	9100.4	8980.8	8963.2	9286.9	9473.4	9543.8	10156.1
30°	11711.6	11697.5	11387.8	10845.9	10191.3	10068.2	10018.9	10258.2	10391.9	10180.8	10652.3
32.5°	12887.0	12911.6	12598.4	12095.2	11511.0	11430.0	11278.7	11278.7	11387.8	11092.2	11433.6
35°	14150.3	14143.3	13896.9	13555.6	13055.9	12964.4	12714.5	12323.9	12489.3	12359.1	12513.9
37.5°	15265.9	15318.7	15199.0	14945.6	14540.9	14449.4	14037.7	13330.4	13457.1	13661.2	13798.4
40°	16399.0	16441.2	16560.9	16480.0	15969.7	15800.8	15068.8	13907.5	14048.3	14748.6	15142.7
42.5°	17511.1	17532.2	17775.0	17908.7	17226.0	16930.4	15850.0	14259.4	14407.2	15600.2	16289.9
45°	18218.4	18264.1	18665.3	19073.5	18334.5	17929.8	16529.2	14709.9	14773.2	16191.4	17138.0
47.5°	18190.2	18295.8	19048.9	19791.4	19288.2	18851.8	17345.7	15431.3	15325.7	16747.4	17697.6
50°	17623.7	17750.4	18830.7	20009.6	19974.4	19569.7	18253.6	16476.4	16145.6	17240.1	17768.0
52.5°	16448.3	16814.3	18447.1	20037.8	20526.9	20322.8	19376.2	17884.1	17254.2	17947.4	17880.6
55°	13907.5	14357.9	17282.3	19798.5	21026.6	21051.3	20555.1	19351.5	18457.7	19165.0	18573.8
57.5°	10557.3	10916.3	13302.2	17623.7	20199.7	20604.3	21012.6	20125.8	19200.2	19995.5	18735.7
60°	6362.5	6777.8	8329.7	12932.7	16314.6	17004.3	18605.5	18433.1	17317.5	17658.9	15364.4
62.5°	2579.5	2797.7	3846.4	7126.2	10268.7	10912.7	12447.1	12707.5	12433.0	12084.6	9318.6
65°	943.1	1031.1	1541.4	2945.5	4722.6	4958.4	5767.8	6228.8	6608.9	5627.0	3466.3
67.5°	584.2	640.5	1002.9	1513.2	1717.3	1597.7	1625.8	1939.0	1851.0	1143.7	619.4
70°	432.8	478.6	784.8	1048.7	693.3	534.9	362.5	387.1	348.4	306.2	302.6
72.5°	299.1	341.4	587.7	619.4	267.5	190.0	133.7	186.5	211.1	207.6	214.7
75°	197.1	228.7	369.5	242.8	66.9	52.8	45.7	98.5	126.7	126.7	130.2
77.5°	116.1	133.7	130.2	49.3	14.1	14.1	10.6	17.6	28.2	31.7	38.7
80°	14.1	10.6	7.0	7.0	7.0	7.0	7.0	7.0	10.6	10.6	10.6
82.5°	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0	10.6	10.6
85°	0.0	0.0	3.5	3.5	7.0	7.0	7.0	7.0	7.0	10.6	10.6
87.5°	0.0	0.0	3.5	3.5	7.0	7.0	7.0	7.0	7.0	10.6	10.6
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°	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1	7383.1
2.5°	7453.5	7428.8	7530.9	7604.8	7664.6	7692.8	7654.0	7650.5	7650.5	7573.1	7552.0
5°	7541.4	7552.0	7696.3	7759.6	7770.2	7735.0	7647.0	7587.2	7552.0	7471.1	7425.3
7.5°	7710.4	7745.5	7882.8	7872.2	7777.2	7615.3	7383.1	7203.6	7087.5	6960.8	6883.4
10°	7953.2	8020.0	8104.5	7956.7	7654.0	7242.3	6763.7	6422.4	6218.3	6074.0	5986.0
12.5°	8248.8	8315.6	8287.5	7939.1	7309.2	6573.7	5957.8	5465.2	5229.4	5099.2	5007.7
15°	8547.9	8590.1	8407.1	7728.0	6700.4	5711.5	5025.3	4536.1	4247.6	4142.0	4064.6
17.5°	8854.1	8843.5	8428.3	7312.7	5887.5	4740.2	4064.6	3730.2	3649.3	3631.7	3624.7
20°	9174.3	9079.3	8343.8	6718.0	4909.1	3779.5	3395.9	3417.0	3564.9	3635.2	3649.3
22.5°	9540.3	9301.0	8132.6	5912.1	3909.7	3149.6	3188.3	3395.9	3596.5	3691.5	3705.6
25°	9930.9	9505.1	7780.7	4877.5	3082.7	2896.2	3125.0	3364.3	3578.9	3695.1	3709.1
27.5°	10187.8	9554.4	7203.6	3835.8	2646.4	2797.7	3040.5	3269.2	3491.0	3617.6	3635.2
30°	10465.8	9533.3	6418.8	2956.0	2498.6	2713.2	2924.4	3132.0	3336.1	3476.9	3491.0
32.5°	10874.0	9519.2	5461.6	2400.0	2438.7	2646.4	2801.2	2973.6	3114.4	3195.3	3184.8
35°	11408.9	9501.6	4346.1	2164.2	2403.5	2593.6	2716.7	2797.7	2642.8	2593.6	2604.1
37.5°	12095.2	9543.8	3406.5	2065.7	2393.0	2579.5	2685.1	2452.8	2213.5	2122.0	2107.9
40°	12855.3	9652.9	2597.1	2027.0	2428.2	2614.7	2565.4	2181.8	1886.2	1706.8	1668.1
42.5°	13618.9	9772.5	2055.2	2012.9	2488.0	2713.2	2368.4	1984.8	1541.4	1439.3	1425.2
45°	14185.5	9751.4	1777.1	1988.3	2540.8	2769.5	2315.6	1703.2	1376.0	1330.2	1333.7
47.5°	14470.6	9519.2	1625.8	1932.0	2561.9	2713.2	2185.4	1587.1	1263.4	1312.6	1354.9
50°	14319.2	8917.4	1485.1	1822.9	2516.2	2639.3	1977.7	1499.1	1207.1	1411.2	1506.2
52.5°	14136.2	8178.4	1330.2	1654.0	2407.1	2537.3	1896.8	1474.5	1171.9	1361.9	1432.3
55°	14379.1	7710.4	1076.8	1393.6	2192.4	2298.0	1833.5	1471.0	1090.9	1059.3	1048.7
57.5°	14037.7	6777.8	770.7	1002.9	1682.1	1819.4	1787.7	1446.4	967.8	964.2	978.3
60°	10849.4	4134.9	527.9	637.0	1031.1	1161.3	1622.3	1383.0	834.0	767.2	770.7
62.5°	6165.5	1759.6	362.5	394.1	527.9	626.4	1238.7	1256.3	770.7	732.0	770.7
65°	2146.7	629.9	281.5	263.9	292.1	334.3	710.9	971.3	700.3	633.4	640.5
67.5°	443.4	313.2	249.9	218.2	218.2	218.2	362.5	605.3	577.1	503.2	510.3
70°	281.5	267.5	218.2	186.5	179.5	165.4	207.6	334.3	397.7	366.0	369.5
72.5°	207.6	204.1	172.4	151.3	133.7	119.6	130.2	165.4	204.1	211.1	214.7
75°	126.7	130.2	112.6	95.0	84.5	73.9	77.4	77.4	77.4	70.4	77.4
77.5°	38.7	42.2	35.2	28.2	24.6	24.6	24.6	21.1	17.6	10.6	10.6
80°	10.6	10.6	10.6	10.6	10.6	7.0	7.0	3.5	3.5	0.0	0.0
82.5°	10.6	10.6	10.6	10.6	7.0	7.0	3.5	3.5	0.0	0.0	0.0
85°	10.6	10.6	10.6	10.6	7.0	7.0	3.5	3.5	0.0	0.0	0.0
87.5°	10.6	10.6	10.6	10.6	7.0	7.0	3.5	3.5	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)