

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: P640993

Luminaire Tested: GWS-SA5F-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27891.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

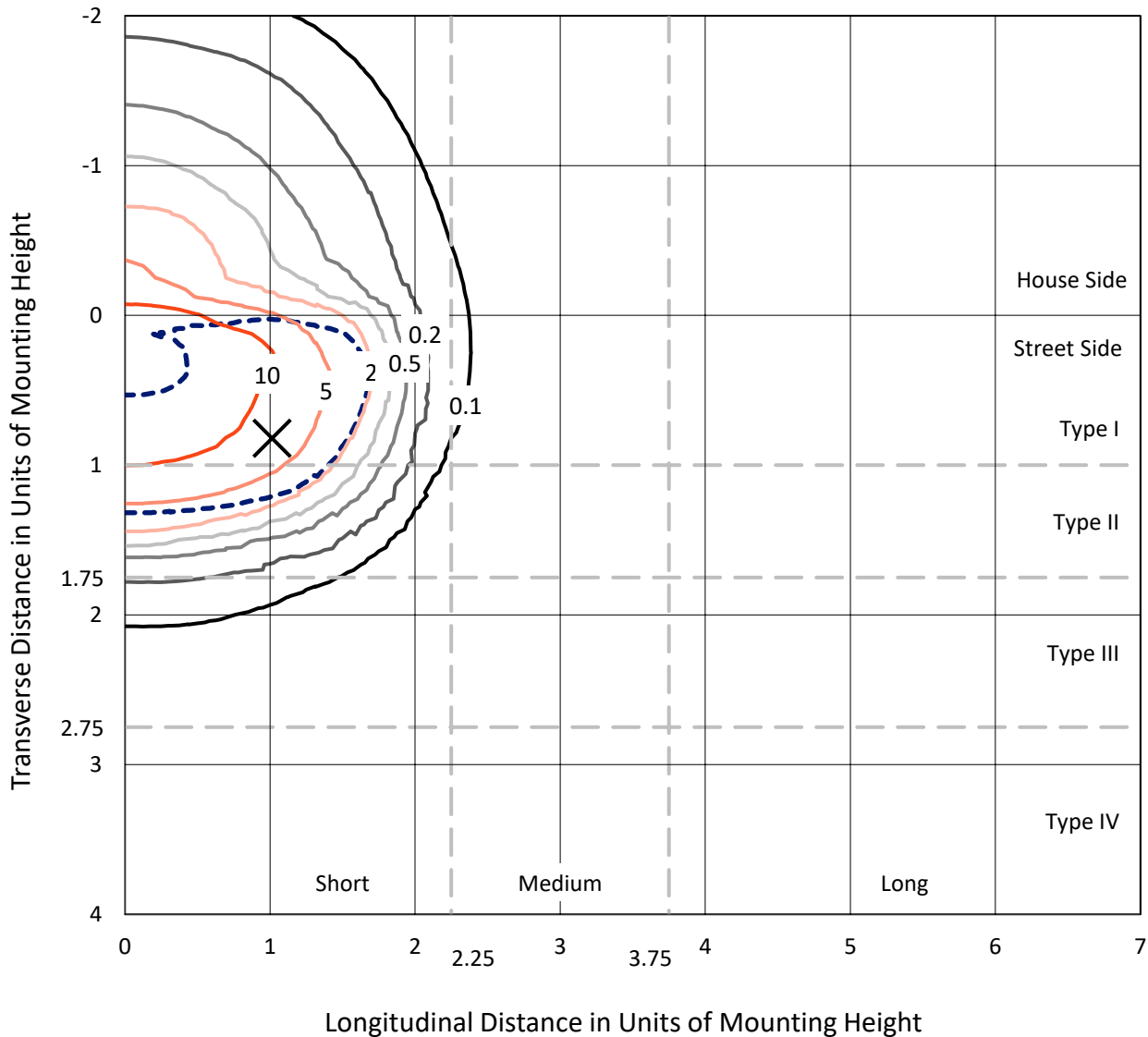
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

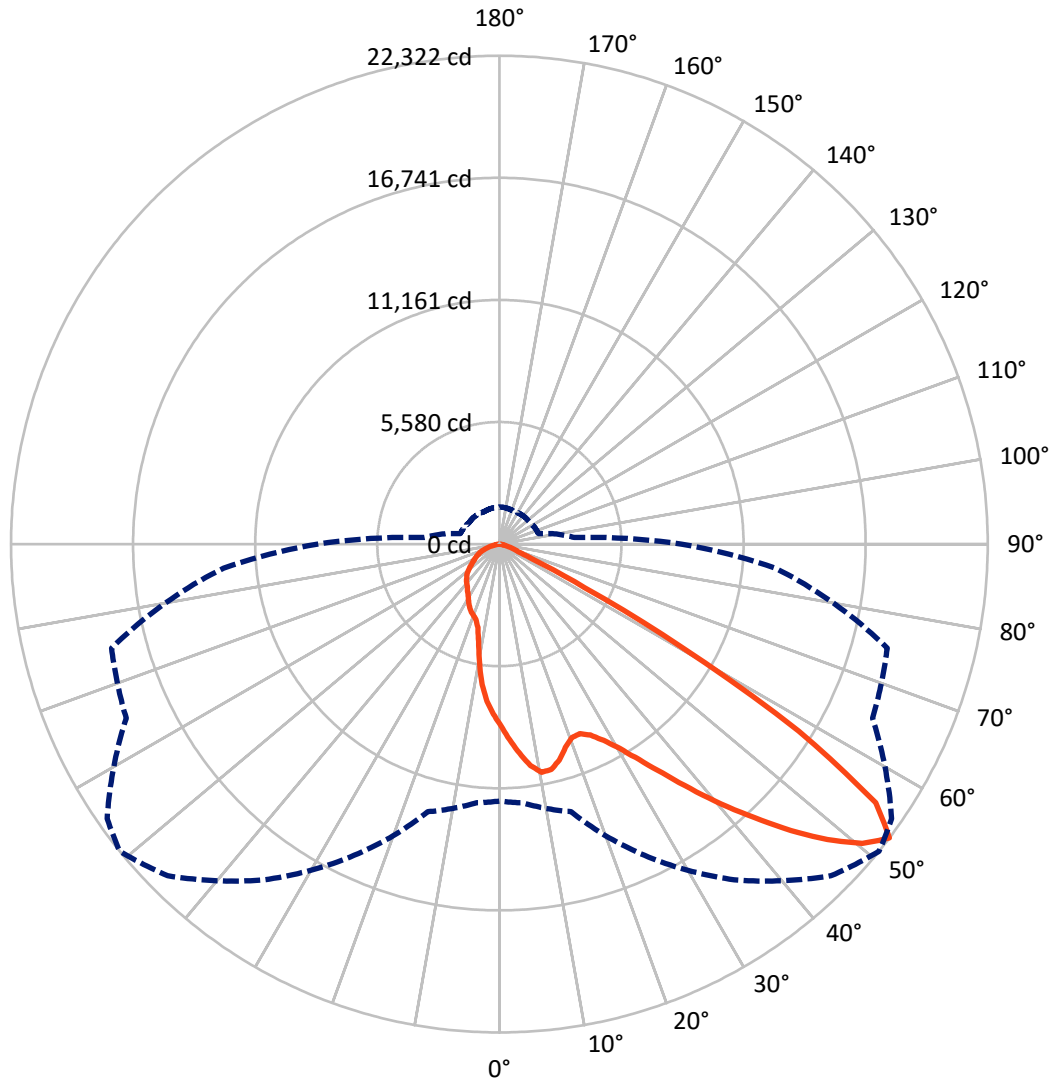
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5434.4	0.0	5434.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22456.8	0.0	22456.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	27891.2	0.0	27891.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.9	2.8
10°-20°	2013.6	7.2
20°-30°	3273.9	11.7
30°-40°	5188.4	18.6
40°-50°	7825.3	28.1
50°-60°	6769.5	24.3
60°-70°	1534.7	5.5
70°-80°	452.5	1.6
80°-90°	58.3	0.2
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°	27891.2	100.0
0°-180°	27891.2	100.0

Coefficient of Utilization



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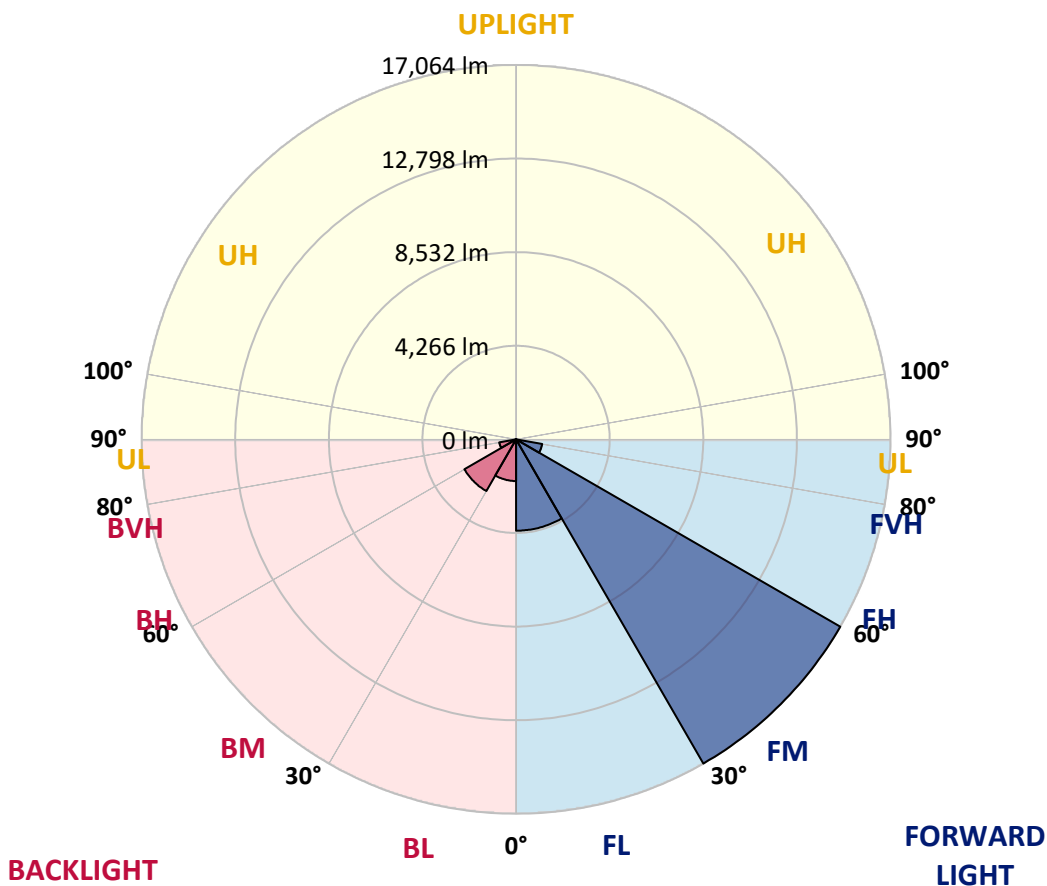
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4162.8	14.9			
FM (30°-60°)	17064.2	61.2			
FH (60°-80°)	1207.8	4.3			G1/1800
FVH (80°-90°)	22.0	0.1			G1/100
BL (0°-30°)	1899.6	6.8	B3/2500		
BM (30°-60°)	2719.0	9.7	B3/5000		
BH (60°-80°)	779.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	36.3	0.1			G1/100
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°	45°	51°	55°	65°	75°	85°
0°	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6
2.5°	9254.5	9307.4	9225.9	9195.0	9144.3	9056.2	8954.8	8926.1	8707.9	8564.7	8403.8
5°	10184.6	10213.2	10147.1	10081.0	9955.4	9798.9	9602.7	9560.9	9164.2	8835.8	8494.1
7.5°	10391.8	10380.8	10438.1	10475.5	10460.1	10398.4	10224.3	10142.7	9668.9	9148.7	8644.0
10°	9571.9	9510.2	9721.8	9973.0	10275.0	10623.2	10603.4	10596.7	10184.6	9569.7	8835.8
12.5°	8485.3	8454.5	8626.4	8941.6	9512.4	10283.8	10572.5	10797.3	10649.6	9970.8	9049.5
15°	7863.8	7852.8	7969.6	8196.6	8650.6	9624.8	10241.9	10687.1	11048.6	10400.6	9276.6
17.5°	7751.4	7758.0	7797.7	7927.7	8253.9	9056.2	9770.2	10391.8	11359.3	10872.2	9560.9
20°	8079.8	8123.9	8055.6	8075.4	8251.7	8851.2	9448.5	10094.2	11557.7	11346.1	9867.2
22.5°	8809.3	8793.9	8644.0	8555.9	8558.1	8976.8	9413.2	9955.4	11687.7	11806.7	10144.9
25°	9635.8	9618.2	9439.7	9243.5	9120.1	9318.4	9666.7	10103.1	11804.5	12227.7	10367.5
27.5°	10612.2	10557.1	10358.7	10107.5	9834.2	9920.1	10155.9	10502.0	11985.3	12642.0	10515.2
30°	11557.7	11621.6	11337.3	11039.7	10751.0	10698.1	10834.8	11147.7	12353.3	13126.9	10691.5
32.5°	12811.7	12789.7	12474.5	12086.6	11674.5	11634.8	11742.8	12029.3	13014.5	13796.9	10960.4
35°	14330.3	14334.7	13887.3	13362.7	12776.5	12670.7	12851.4	13129.1	13999.7	14705.0	11385.8
37.5°	15908.3	15901.7	15511.6	14916.5	14116.5	13966.6	14173.8	14381.0	15231.7	15941.4	12047.0
40°	17014.7	17058.8	16875.9	16562.9	15804.8	15438.9	15621.8	15765.1	16571.7	17396.0	12917.5
42.5°	17642.9	17709.0	17748.7	17936.0	17537.1	17147.0	17080.9	17155.8	17768.5	18747.1	13735.2
45°	17777.3	17865.5	18154.2	18848.4	19002.7	18892.5	18676.5	18495.8	18661.1	19705.8	14270.8
47.5°	17184.4	17338.7	17955.8	19170.2	20071.7	20417.7	20177.4	19902.0	19176.8	19952.6	14215.7
50°	14835.0	15015.7	16406.4	18513.4	20223.7	21484.4	21506.5	21098.7	19115.1	19240.8	13523.6
52.5°	11745.0	11868.4	12664.1	15694.6	18731.6	21440.3	22321.9	21885.5	18817.6	18350.3	12657.5
55°	7019.7	7218.0	7960.8	10354.3	14592.6	19002.7	20880.5	21092.1	18672.1	17603.2	12066.8
57.5°	2369.3	2466.3	3175.9	4573.3	8599.9	13913.7	16133.1	16992.7	16950.8	16461.5	10914.1
60°	1128.4	1150.5	1293.7	1734.5	3442.6	7270.9	9549.9	10541.6	11445.3	11535.6	6790.5
62.5°	859.6	872.8	945.5	1040.3	1384.1	3063.5	4377.1	5135.3	5485.7	4707.7	2472.9
65°	718.5	729.5	784.6	844.1	941.1	1326.8	1679.4	1937.3	1745.6	1359.9	1179.1
67.5°	599.5	608.3	650.2	714.1	780.2	888.2	932.3	958.7	1005.0	1128.4	1084.4
70°	469.4	478.3	522.3	577.4	641.4	667.8	709.7	736.1	828.7	987.4	983.0
72.5°	361.5	372.5	396.7	432.0	484.9	511.3	557.6	588.5	641.4	769.2	822.1
75°	264.5	271.1	293.1	304.1	310.8	304.1	350.4	385.7	456.2	504.7	517.9
77.5°	108.0	121.2	116.8	116.8	138.9	167.5	191.7	213.8	262.3	290.9	293.1
80°	44.1	48.5	57.3	63.9	77.1	99.2	114.6	123.4	145.5	163.1	176.3
82.5°	26.4	28.7	33.1	35.3	44.1	57.3	66.1	72.7	90.4	108.0	114.6
85°	13.2	13.2	15.4	17.6	22.0	26.4	30.9	35.3	46.3	57.3	63.9
87.5°	2.2	2.2	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	22.0
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°	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6	8304.6
2.5°	8309.0	8190.0	8051.1	7940.9	7813.1	7718.3	7583.9	7500.1	7420.8	7354.7	7306.2
5°	8317.8	8117.3	7828.5	7572.9	7308.4	7057.1	6799.3	6589.9	6402.6	6246.1	6232.9
7.5°	8368.5	8079.8	7628.0	7180.6	6664.8	6166.7	5668.6	5263.1	4954.6	4793.7	4760.6
10°	8454.5	8075.4	7423.0	6708.9	5829.5	5027.3	4436.6	4128.1	3949.5	3885.6	3863.6
12.5°	8544.8	8064.4	7160.7	6043.3	4822.3	4119.2	3795.3	3757.8	3790.8	3795.3	3793.1
15°	8655.0	8057.8	6830.1	5263.1	4086.2	3698.3	3720.3	3799.7	3876.8	3894.4	3894.4
17.5°	8789.5	8042.3	6380.5	4500.5	3625.5	3616.7	3733.5	3839.3	3912.1	3925.3	3925.3
20°	8930.5	8002.7	5827.3	3879.0	3438.2	3566.0	3691.7	3773.2	3823.9	3841.5	3843.7
22.5°	9027.5	7896.9	5190.4	3418.4	3321.4	3469.1	3559.4	3643.2	3643.2	3599.1	3585.9
25°	9047.3	7669.9	4500.5	3103.2	3182.5	3319.2	3411.8	3363.3	3272.9	3237.6	3235.4
27.5°	8974.6	7339.3	3819.5	2878.4	3015.0	3151.7	3136.3	3065.7	3026.1	2990.8	3004.0
30°	8886.5	6942.5	3228.8	2693.3	2821.1	2955.5	2902.6	2878.4	2849.7	2810.1	2818.9
32.5°	8826.9	6499.5	2774.8	2550.0	2691.1	2713.1	2750.6	2748.4	2721.9	2647.0	2642.6
35°	8844.6	6052.1	2470.7	2433.2	2583.1	2574.3	2644.8	2631.6	2448.6	2345.0	2338.4
37.5°	8985.6	5622.4	2292.1	2340.6	2411.2	2466.3	2528.0	2369.3	2305.4	2239.2	2243.7
40°	9254.5	5223.4	2195.2	2289.9	2307.6	2389.1	2245.9	2243.7	2215.0	2155.5	2153.3
42.5°	9558.7	4886.2	2129.0	2265.7	2241.4	2256.9	2104.8	2122.4	2120.2	2082.8	2071.7
45°	9743.8	4575.5	2076.2	2175.3	2181.9	2027.7	1981.4	2001.2	2012.2	1992.4	1990.2
47.5°	9552.1	4218.4	2021.1	2036.5	2093.8	1924.1	1866.8	1869.0	1888.8	1891.0	1882.2
50°	9014.3	3819.5	1954.9	1917.5	1880.0	1816.1	1763.2	1752.2	1772.0	1791.8	1798.4
52.5°	8320.0	3438.2	1844.7	1787.4	1699.3	1699.3	1675.0	1639.8	1666.2	1692.7	1701.5
55°	7810.9	3156.1	1688.2	1624.3	1527.4	1560.4	1556.0	1525.2	1560.4	1580.3	1586.9
57.5°	6768.4	2536.8	1485.5	1465.6	1384.1	1423.8	1432.6	1392.9	1375.3	1379.7	1386.3
60°	4017.9	1637.6	1340.0	1337.8	1265.1	1311.4	1337.8	1298.1	1245.2	1251.9	1260.7
62.5°	1802.9	1251.9	1157.1	1148.3	1146.1	1205.6	1234.2	1196.8	1121.8	1128.4	1137.3
65°	1135.1	1082.2	1005.0	1005.0	1040.3	1091.0	1113.0	1082.2	996.2	985.2	994.0
67.5°	1053.5	1007.2	927.9	912.4	930.1	972.0	974.2	914.7	864.0	855.1	855.1
70°	945.5	910.2	833.1	802.2	795.6	793.4	786.8	771.4	738.3	729.5	733.9
72.5°	782.4	758.2	709.7	676.6	659.0	656.8	630.3	617.1	588.5	584.1	581.9
75°	517.9	524.5	524.5	520.1	504.7	498.1	469.4	456.2	423.2	409.9	407.7
77.5°	306.4	313.0	321.8	324.0	321.8	321.8	295.3	279.9	246.8	229.2	224.8
80°	187.3	191.7	196.2	202.8	194.0	187.3	163.1	147.7	132.2	121.2	119.0
82.5°	121.2	125.6	127.8	132.2	127.8	119.0	99.2	90.4	79.3	70.5	68.3
85°	68.3	70.5	74.9	74.9	68.3	61.7	50.7	44.1	37.5	33.1	33.1
87.5°	24.2	24.2	24.2	26.4	22.0	19.8	13.2	8.8	6.6	6.6	6.6
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)