

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: P640168

Luminaire Tested: GWS-SA5D-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640168
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-SA5D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26879.6 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

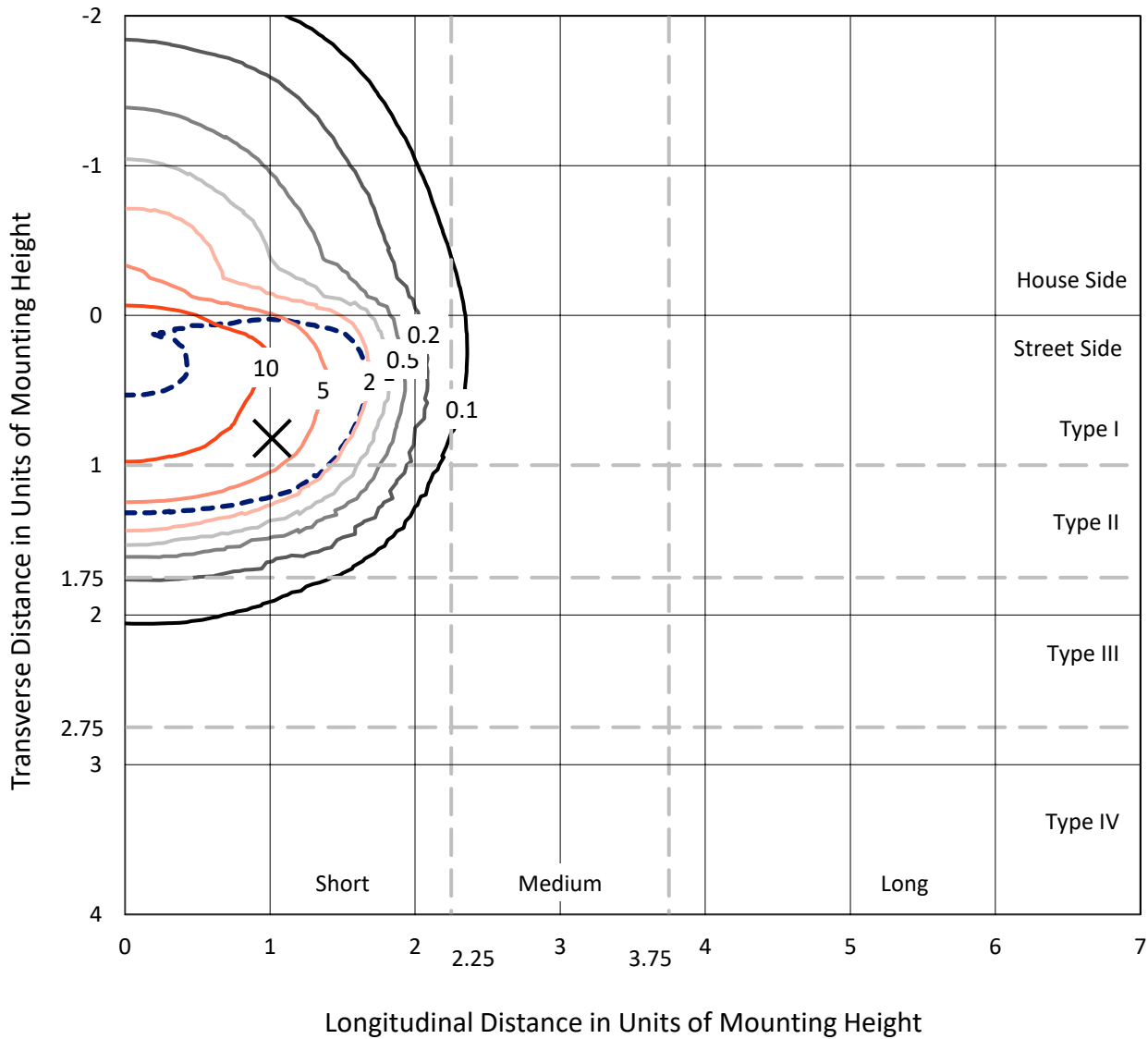
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

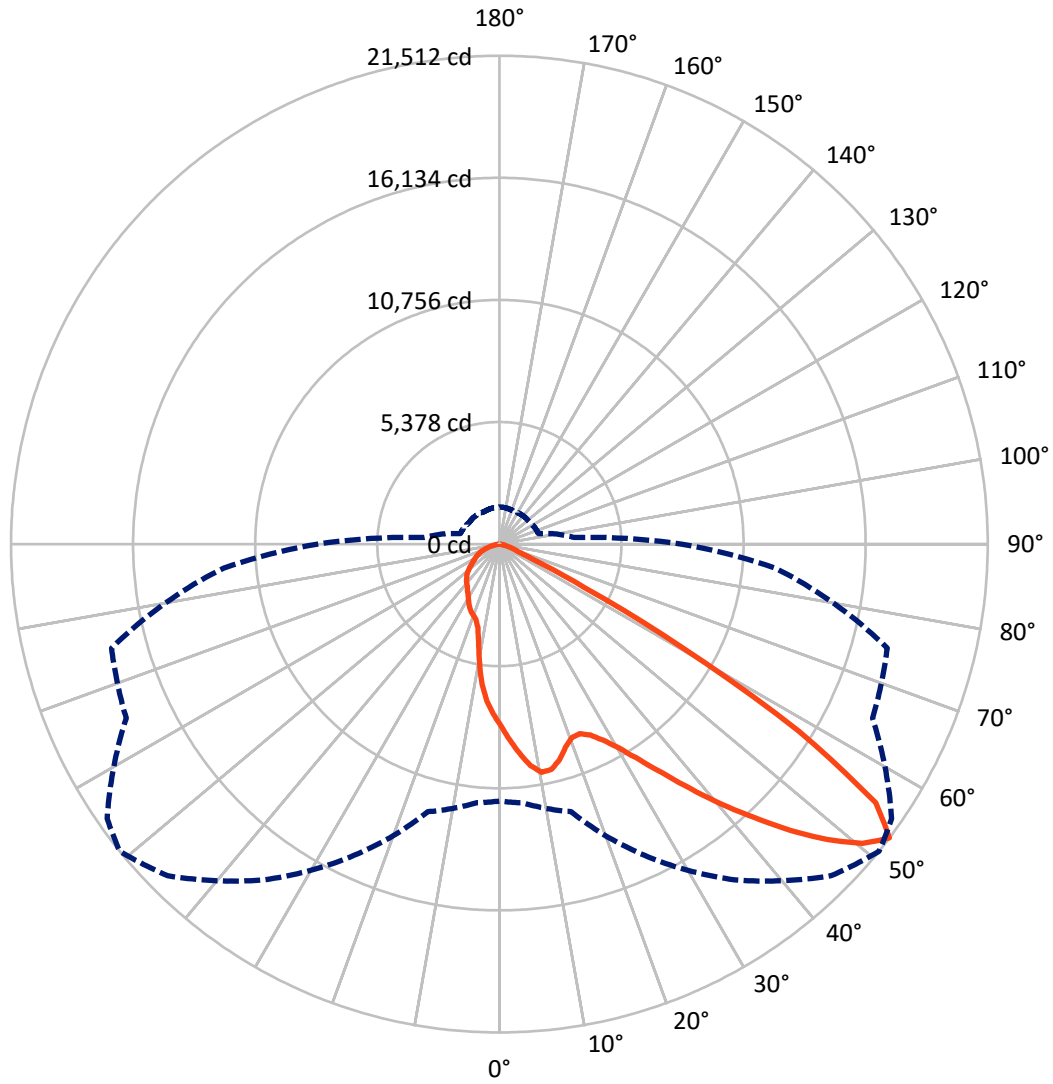
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	5237.3	0.0	5237.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21642.3	0.0	21642.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	26879.6	0.0	26879.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.8	2.8
10°-20°	1940.6	7.2
20°-30°	3155.2	11.7
30°-40°	5000.3	18.6
40°-50°	7541.5	28.1
50°-60°	6524.0	24.3
60°-70°	1479.0	5.5
70°-80°	436.1	1.6
80°-90°	56.2	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°	26879.6	100.0
0°-180°	26879.6	100.0

Coefficient of Utilization



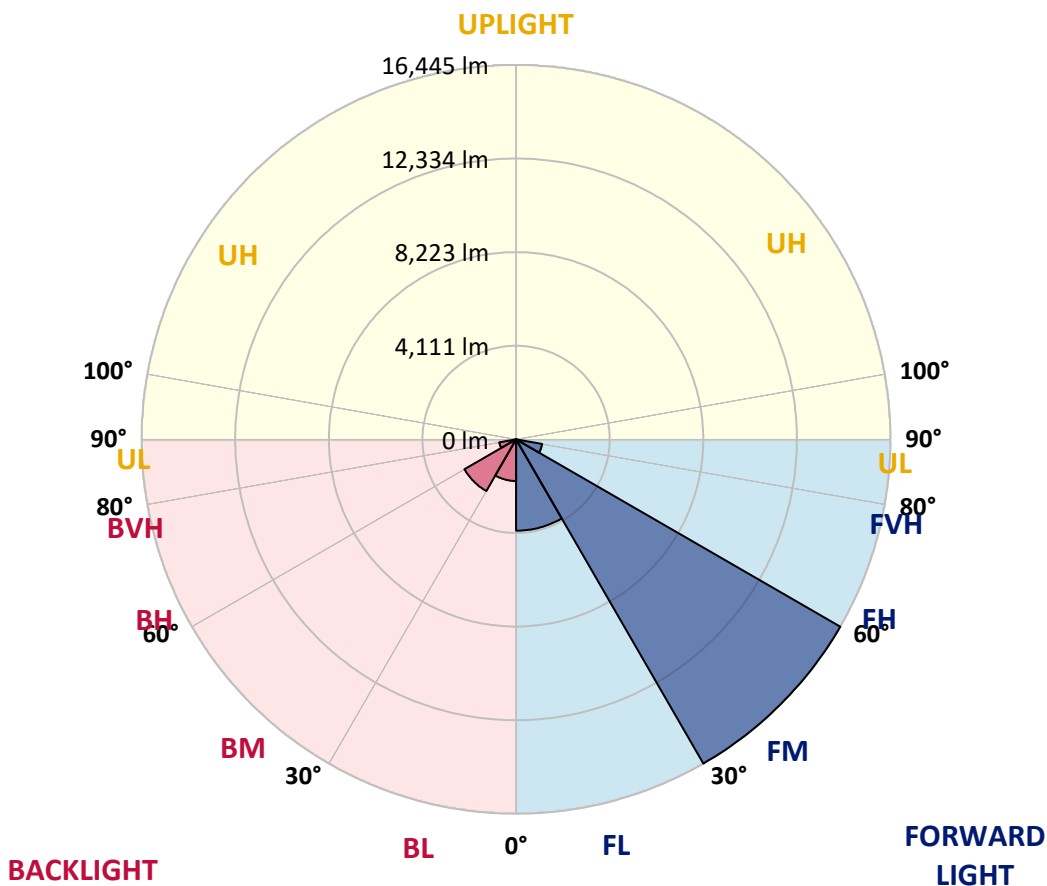
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4011.8	14.9			
FM (30°-60°)	16445.3	61.2			
FH (60°-80°)	1164.0	4.3			G1/1800
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	1830.7	6.8	B3/2500		
BM (30°-60°)	2620.4	9.7	B3/5000		
BH (60°-80°)	751.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	35.0	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°	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4
2.5°	8918.9	8969.8	8891.2	8861.5	8812.7	8727.7	8630.0	8602.4	8392.1	8254.0	8099.0
5°	9815.2	9842.8	9779.1	9715.4	9594.3	9443.5	9254.5	9214.1	8831.8	8515.3	8186.1
7.5°	10014.9	10004.2	10059.5	10095.6	10080.7	10021.2	9853.4	9774.9	9318.2	8816.9	8330.5
10°	9224.7	9165.3	9369.2	9611.3	9902.3	10237.9	10218.8	10212.4	9815.2	9222.6	8515.3
12.5°	8177.6	8147.8	8313.5	8617.2	9167.4	9910.8	10189.0	10405.7	10263.4	9609.2	8721.3
15°	7578.6	7568.0	7680.5	7899.3	8336.9	9275.7	9870.4	10299.5	10647.8	10023.4	8940.1
17.5°	7470.3	7476.6	7514.9	7640.2	7954.5	8727.7	9415.9	10014.9	10947.3	10477.9	9214.1
20°	7786.7	7829.2	7763.4	7782.5	7952.4	8530.2	9105.8	9728.1	11138.5	10934.6	9509.3
22.5°	8489.8	8474.9	8330.5	8245.5	8247.7	8651.2	9071.8	9594.3	11263.8	11378.5	9777.0
25°	9286.3	9269.3	9097.3	8908.2	8789.3	8980.5	9316.1	9736.6	11376.4	11784.2	9991.5
27.5°	10227.3	10174.2	9983.0	9740.9	9477.5	9560.3	9787.6	10121.1	11550.6	12183.5	10133.8
30°	11138.5	11200.1	10926.1	10639.3	10361.1	10310.1	10441.8	10743.4	11905.3	12650.8	10303.7
32.5°	12347.1	12325.8	12022.1	11648.3	11251.1	11212.8	11316.9	11593.0	12542.5	13296.5	10562.9
35°	13810.5	13814.8	13383.6	12878.1	12313.1	12211.1	12385.3	12652.9	13491.9	14171.6	10972.8
37.5°	15331.3	15325.0	14949.0	14375.5	13604.5	13460.1	13659.7	13859.4	14679.3	15363.2	11610.0
40°	16397.6	16440.1	16263.8	15962.2	15231.5	14878.9	15055.2	15193.3	15970.7	16765.1	12449.0
42.5°	17003.0	17066.7	17104.9	17285.5	16901.0	16525.1	16461.3	16533.6	17124.0	18067.1	13237.0
45°	17132.5	17217.5	17495.8	18164.8	18313.5	18207.3	17999.1	17825.0	17984.3	18991.1	13753.2
47.5°	16561.2	16709.9	17304.6	18474.9	19343.7	19677.1	19445.6	19180.1	18481.3	19229.0	13700.1
50°	14296.9	14471.1	15811.4	17842.0	19490.2	20705.2	20726.4	20333.5	18421.8	18542.9	13033.1
52.5°	11319.0	11438.0	12204.8	15125.3	18052.3	20662.7	21512.3	21091.8	18135.1	17684.8	12198.4
55°	6765.1	6956.2	7672.0	9978.8	14063.3	18313.5	20123.2	20327.1	17994.9	16964.7	11629.1
57.5°	2283.3	2376.8	3060.7	4407.4	8288.0	13409.1	15548.0	16376.4	16336.0	15864.5	10518.3
60°	1087.5	1108.8	1246.8	1671.6	3317.8	7007.2	9203.5	10159.3	11030.2	11117.2	6544.2
62.5°	828.4	841.1	911.2	1002.5	1333.9	2952.4	4218.4	4949.0	5286.7	4537.0	2383.2
65°	692.4	703.1	756.2	813.5	907.0	1278.7	1618.5	1867.0	1682.2	1310.5	1136.4
67.5°	577.7	586.2	626.6	688.2	751.9	856.0	898.5	924.0	968.6	1087.5	1045.0
70°	452.4	460.9	503.4	556.5	618.1	643.6	683.9	709.4	798.6	951.6	947.3
72.5°	348.3	359.0	382.3	416.3	467.3	492.8	537.4	567.1	618.1	741.3	792.3
75°	254.9	261.3	282.5	293.1	299.5	293.1	337.7	371.7	439.7	486.4	499.2
77.5°	104.1	116.8	112.6	112.6	133.8	161.4	184.8	206.0	252.8	280.4	282.5
80°	42.5	46.7	55.2	61.6	74.3	95.6	110.5	118.9	140.2	157.2	169.9
82.5°	25.5	27.6	31.9	34.0	42.5	55.2	63.7	70.1	87.1	104.1	110.5
85°	12.7	12.7	14.9	17.0	21.2	25.5	29.7	34.0	44.6	55.2	61.6
87.5°	2.1	2.1	2.1	4.2	6.4	8.5	10.6	12.7	14.9	17.0	21.2
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°	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4	8003.4
2.5°	8007.6	7892.9	7759.1	7652.9	7529.7	7438.4	7308.8	7228.1	7151.7	7087.9	7041.2
5°	8016.1	7822.9	7544.6	7298.2	7043.3	6801.2	6552.7	6350.9	6170.3	6019.5	6006.8
7.5°	8065.0	7786.7	7351.3	6920.1	6423.1	5943.1	5463.0	5072.2	4774.9	4619.8	4587.9
10°	8147.8	7782.5	7153.8	6465.6	5618.1	4844.9	4275.7	3978.3	3806.3	3744.7	3723.4
12.5°	8234.9	7771.9	6901.0	5824.1	4647.4	3969.8	3657.6	3621.5	3653.4	3657.6	3655.5
15°	8341.1	7765.5	6582.4	5072.2	3938.0	3564.1	3585.4	3661.9	3736.2	3753.2	3753.2
17.5°	8470.7	7750.6	6149.1	4337.3	3494.1	3485.6	3598.1	3700.1	3770.2	3782.9	3782.9
20°	8606.6	7712.4	5616.0	3738.3	3313.5	3436.7	3557.8	3636.4	3685.2	3702.2	3704.3
22.5°	8700.1	7610.4	5002.1	3294.4	3200.9	3343.2	3430.3	3511.0	3511.0	3468.6	3455.8
25°	8719.2	7391.7	4337.3	2990.7	3067.1	3198.8	3288.0	3241.3	3154.2	3120.2	3118.1
27.5°	8649.1	7073.1	3681.0	2774.0	2905.7	3037.4	3022.5	2954.5	2916.3	2882.3	2895.1
30°	8564.1	6690.7	3111.7	2595.6	2718.8	2848.3	2797.4	2774.0	2746.4	2708.2	2716.7
32.5°	8506.8	6263.8	2674.2	2457.5	2593.5	2614.7	2650.8	2648.7	2623.2	2551.0	2546.7
35°	8523.8	5832.6	2381.1	2344.9	2489.4	2480.9	2548.9	2536.1	2359.8	2260.0	2253.6
37.5°	8659.7	5418.4	2209.0	2255.7	2323.7	2376.8	2436.3	2283.3	2221.8	2158.0	2162.3
40°	8918.9	5034.0	2115.5	2206.9	2223.9	2302.5	2164.4	2162.3	2134.7	2077.3	2075.2
42.5°	9212.0	4709.0	2051.8	2183.5	2160.2	2175.0	2028.5	2045.5	2043.3	2007.2	1996.6
45°	9390.4	4409.5	2000.8	2096.4	2102.8	1954.1	1909.5	1928.6	1939.3	1920.1	1918.0
47.5°	9205.6	4065.4	1947.7	1962.6	2017.8	1854.3	1799.1	1801.2	1820.3	1822.4	1813.9
50°	8687.3	3681.0	1884.0	1847.9	1811.8	1750.2	1699.2	1688.6	1707.7	1726.8	1733.2
52.5°	8018.3	3313.5	1777.8	1722.6	1637.6	1637.6	1614.3	1580.3	1605.8	1631.3	1639.8
55°	7527.6	3041.6	1627.0	1565.4	1472.0	1503.8	1499.6	1469.8	1503.8	1522.9	1529.3
57.5°	6522.9	2444.8	1431.6	1412.5	1333.9	1372.1	1380.6	1342.4	1325.4	1329.7	1336.0
60°	3872.1	1578.2	1291.4	1289.3	1219.2	1263.8	1289.3	1251.1	1200.1	1206.5	1215.0
62.5°	1737.5	1206.5	1115.1	1106.6	1104.5	1161.9	1189.5	1153.4	1081.1	1087.5	1096.0
65°	1093.9	1042.9	968.6	968.6	1002.5	1051.4	1072.6	1042.9	960.1	949.4	957.9
67.5°	1015.3	970.7	894.2	879.4	896.3	936.7	938.8	881.5	832.6	824.1	824.1
70°	911.2	877.2	802.9	773.2	766.8	764.7	758.3	743.4	711.6	703.1	707.3
72.5°	754.0	730.7	683.9	652.1	635.1	633.0	607.5	594.7	567.1	562.9	560.7
75°	499.2	505.5	505.5	501.3	486.4	480.0	452.4	439.7	407.8	395.1	392.9
77.5°	295.2	301.6	310.1	312.2	310.1	310.1	284.6	269.8	237.9	220.9	216.7
80°	180.5	184.8	189.0	195.4	186.9	180.5	157.2	142.3	127.4	116.8	114.7
82.5°	116.8	121.1	123.2	127.4	123.2	114.7	95.6	87.1	76.5	68.0	65.8
85°	65.8	68.0	72.2	72.2	65.8	59.5	48.9	42.5	36.1	31.9	31.9
87.5°	23.4	23.4	23.4	25.5	21.2	19.1	12.7	8.5	6.4	6.4	6.4
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)