

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: P640673

Luminaire Tested: GWS-SA5E-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21656.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

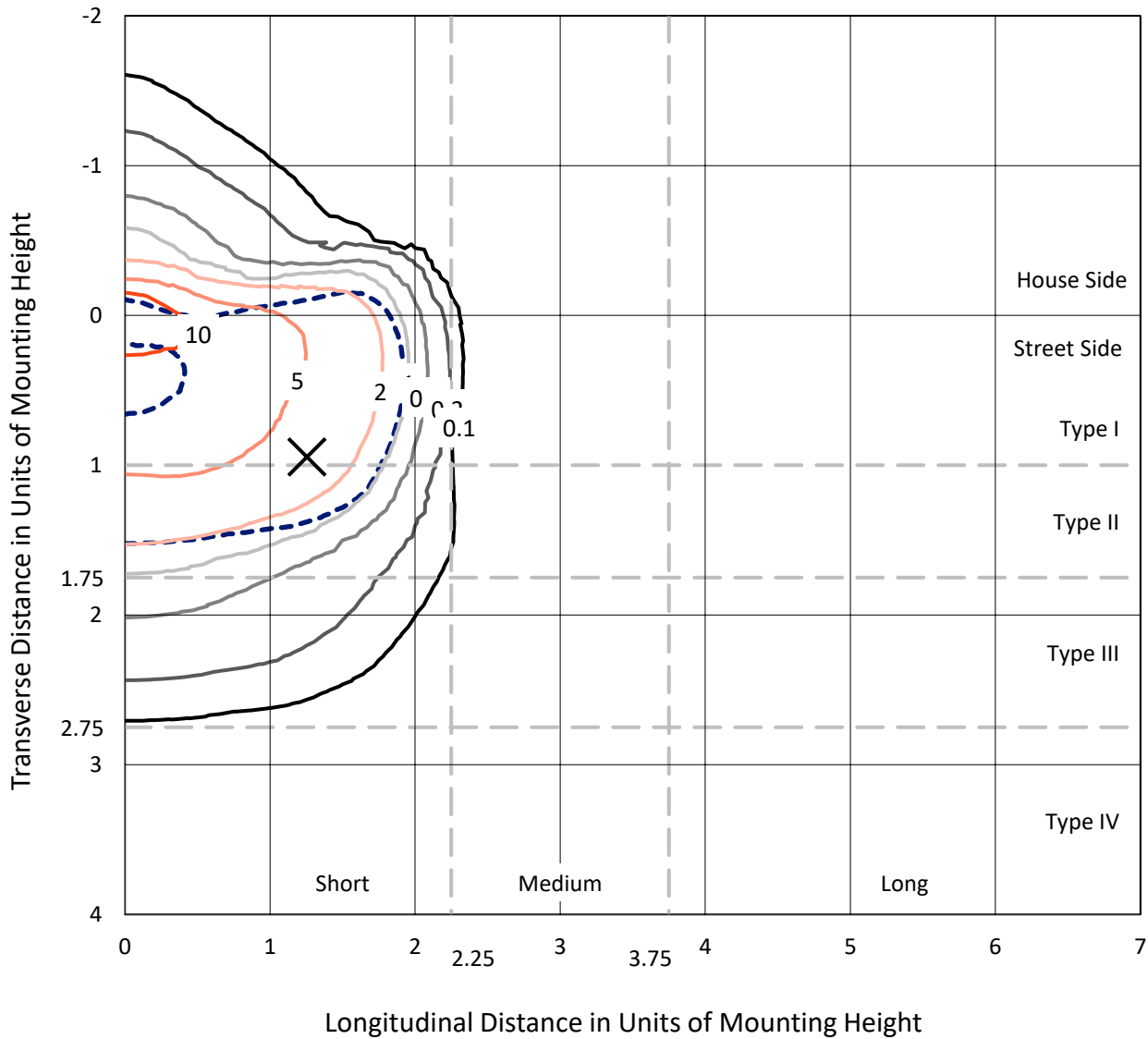
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

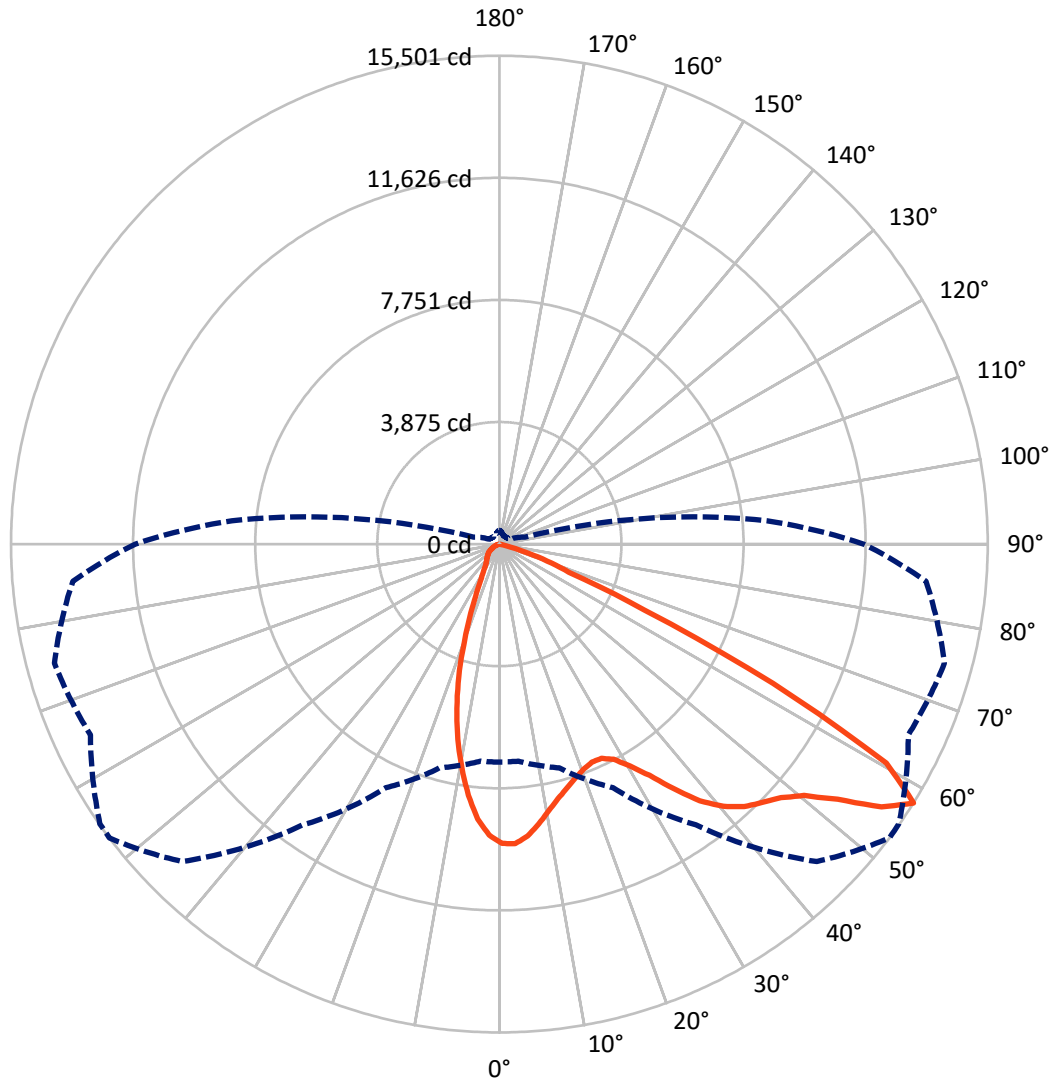
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3577.4	0.0	3577.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18079.0	0.0	18079.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	21656.4	0.0	21656.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.8	3.8
10°-20°	1784.3	8.2
20°-30°	2324.5	10.7
30°-40°	3371.8	15.6
40°-50°	4865.2	22.5
50°-60°	5884.1	27.2
60°-70°	2398.1	11.1
70°-80°	215.5	1.0
80°-90°	0.0	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°	21656.4	100.0
0°-180°	21656.4	100.0

Coefficient of Utilization



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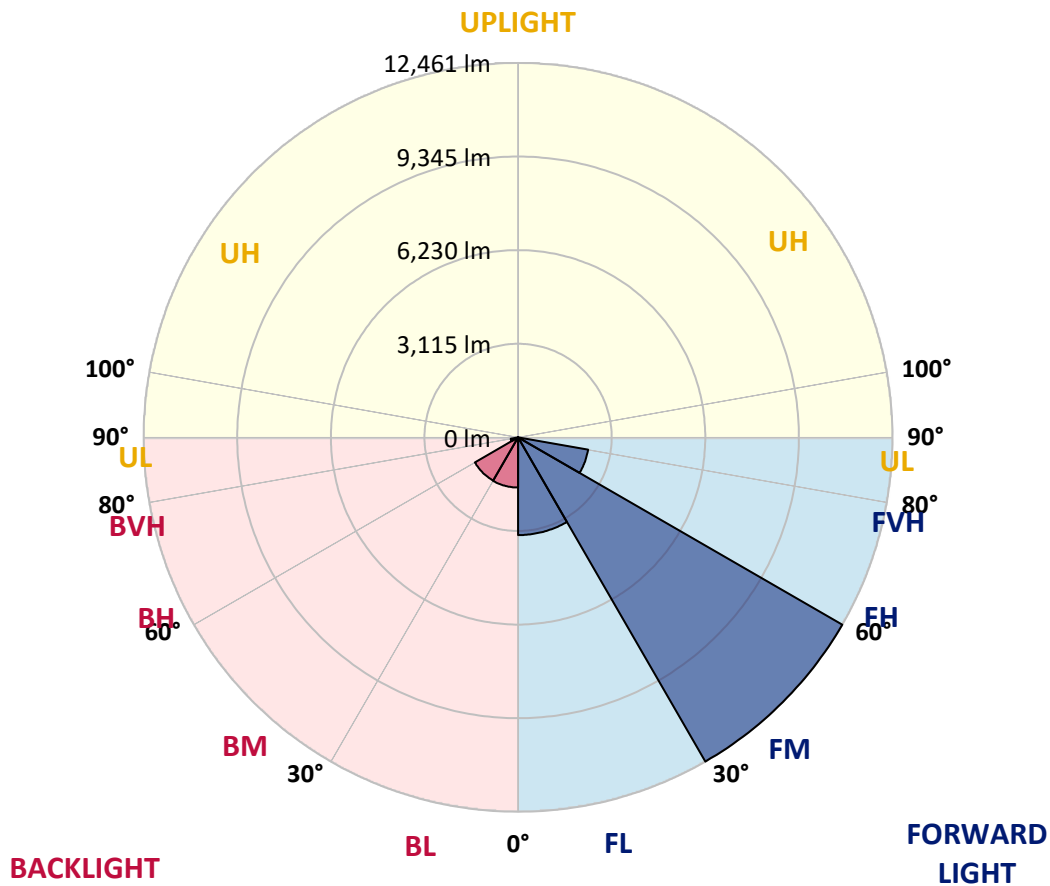
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.1	15.0			
FM (30°-60°)	12460.7	57.5			
FH (60°-80°)	2366.3	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1669.6	7.7	B3/2500		
BM (30°-60°)	1660.4	7.7	B2/2500		
BH (60°-80°)	247.3	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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°	45°	53°	55°	65°	75°	85°
0°	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7
2.5°	9367.0	9388.3	9425.4	9473.2	9505.0	9521.0	9521.0	9566.1	9536.9	9513.0	9486.5
5°	8966.2	8987.5	9037.9	9114.9	9191.8	9247.6	9311.3	9359.1	9377.6	9377.6	9332.5
7.5°	8400.9	8430.0	8461.9	8568.1	8735.3	8860.0	8968.9	9037.9	9138.7	9170.6	9106.9
10°	7793.0	7822.2	7893.9	8039.9	8231.0	8416.8	8602.6	8690.2	8862.7	8952.9	8881.3
12.5°	7278.1	7291.4	7386.9	7562.1	7806.3	8061.1	8286.7	8377.0	8621.2	8756.5	8671.6
15°	6853.4	6861.4	6956.9	7150.7	7432.0	7745.2	8029.3	8122.2	8422.1	8626.5	8499.1
17.5°	6532.2	6534.9	6617.2	6826.9	7121.5	7469.2	7806.3	7920.4	8308.0	8554.8	8363.7
20°	6370.3	6362.4	6420.7	6603.9	6882.6	7230.3	7628.5	7769.1	8244.2	8544.2	8260.2
22.5°	6373.0	6354.4	6378.3	6508.3	6744.6	7071.0	7517.0	7676.2	8249.6	8589.3	8172.6
25°	6524.3	6497.7	6503.0	6572.0	6739.3	7036.5	7532.9	7702.8	8355.7	8740.6	8140.7
27.5°	6779.1	6749.9	6749.9	6784.4	6874.6	7145.4	7732.0	7925.7	8639.7	9035.2	8207.1
30°	7108.2	7079.0	7068.4	7102.9	7177.2	7426.7	8175.2	8377.0	9125.5	9518.3	8419.4
32.5°	7485.1	7450.6	7469.2	7517.0	7588.6	7933.7	8745.9	9014.0	9733.3	10168.6	8801.7
35°	7883.3	7854.1	7939.0	8042.5	8154.0	8637.1	9534.2	9767.8	10479.2	10978.2	9385.6
37.5°	8262.8	8249.6	8427.4	8645.0	8876.0	9481.2	10335.8	10516.3	11118.9	11859.4	10099.6
40°	8642.4	8639.7	8945.0	9327.2	9696.1	10322.6	10943.7	11092.3	11509.0	12544.2	10784.4
42.5°	9067.1	9067.1	9489.1	9998.7	10489.8	11033.9	11389.6	11455.9	11684.2	12939.7	11299.3
45°	9473.2	9497.1	9985.5	10577.4	11158.7	11588.7	11697.5	11702.8	11755.9	13173.3	11726.7
47.5°	9794.4	9815.6	10399.5	11081.7	11708.1	12010.7	12026.6	12002.7	11944.3	13396.2	12055.8
50°	10054.5	10086.3	10696.8	11418.8	12085.0	12416.8	12538.9	12515.0	12366.4	13635.1	12286.7
52.5°	10181.9	10227.0	10800.3	11586.0	12504.4	13112.2	13452.0	13507.7	12998.1	13767.8	12507.1
55°	9162.6	9229.0	9757.2	10832.2	12738.0	14187.2	14720.7	14710.1	13682.9	14163.3	13043.2
57.5°	6919.8	6914.4	7352.4	8528.3	10880.0	14248.3	15501.1	15479.9	14322.6	14622.5	13592.7
60°	4711.4	4679.5	4796.3	5364.3	7607.2	11607.2	14107.6	14394.3	13868.7	13507.7	11540.9
62.5°	3877.9	3848.7	3811.6	3655.0	4369.0	7230.3	9746.6	10181.9	10112.9	9388.3	7238.3
65°	3174.5	3198.4	3301.9	3235.6	3039.2	3708.1	5059.1	5316.6	4860.0	4090.3	2529.5
67.5°	2341.1	2351.7	2487.1	2837.4	2731.3	2468.5	2380.9	2423.4	1420.0	653.0	422.0
70°	1382.9	1390.9	1515.6	1985.4	2216.3	1895.2	1608.5	1584.6	562.7	175.2	191.1
72.5°	783.0	767.1	791.0	944.9	1207.7	1006.0	828.1	753.8	169.9	98.2	98.2
75°	371.6	361.0	310.6	292.0	265.4	169.9	106.2	90.2	42.5	39.8	39.8
77.5°	2.7	8.0	5.3	8.0	8.0	5.3	2.7	2.7	8.0	8.0	10.6
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°	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7	9499.7
2.5°	9438.7	9359.1	9340.5	9335.2	9260.8	9181.2	9098.9	9067.1	9019.3	8990.1	9014.0
5°	9260.8	9146.7	9045.8	8952.9	8788.4	8607.9	8451.3	8350.4	8254.9	8191.2	8207.1
7.5°	9008.7	8860.0	8629.1	8392.9	8090.3	7819.6	7517.0	7331.2	7158.6	7063.1	7108.2
10°	8740.6	8544.2	8175.2	7774.4	7299.3	6874.6	6442.0	6089.0	5884.6	5690.8	5712.0
12.5°	8477.8	8217.7	7665.6	7057.8	6457.9	5831.5	5178.5	4690.1	4355.7	4114.2	4077.0
15°	8233.6	7899.2	7169.3	6367.7	5550.1	4716.7	3883.2	3185.2	2797.6	2558.7	2542.8
17.5°	8016.0	7601.9	6654.3	5645.7	4621.1	3554.1	2595.9	2073.0	1850.0	1746.5	1735.9
20°	7806.3	7302.0	6128.8	4913.1	3607.2	2495.0	1791.7	1550.1	1478.4	1436.0	1441.3
22.5°	7604.6	6975.5	5576.7	4100.9	2704.7	1751.8	1388.2	1295.3	1287.3	1292.6	1295.3
25°	7434.7	6675.6	5008.7	3317.9	1929.7	1335.1	1159.9	1133.4	1157.3	1191.8	1197.1
27.5°	7347.1	6431.4	4453.9	2529.5	1396.2	1085.6	1006.0	1016.6	1059.1	1096.2	1101.5
30°	7371.0	6248.2	3880.6	1834.1	1075.0	915.7	889.2	910.4	952.9	987.4	992.7
32.5°	7540.9	6155.3	3294.0	1335.1	883.9	798.9	788.3	804.3	841.4	868.0	870.6
35°	7878.0	6176.6	2736.6	1021.9	759.1	711.4	708.7	719.3	737.9	756.5	759.1
37.5°	8374.3	6349.1	2187.1	849.4	687.5	653.0	642.3	642.3	655.6	663.6	668.9
40°	8907.8	6609.2	1751.8	751.2	637.0	599.9	578.6	570.7	581.3	591.9	594.6
42.5°	9348.4	6869.3	1422.7	682.2	597.2	546.8	520.2	514.9	528.2	546.8	552.1
45°	9685.5	7071.0	1186.5	626.4	552.1	496.4	467.2	467.2	491.0	522.9	528.2
47.5°	9993.4	7233.0	1011.3	576.0	509.6	451.2	422.0	427.3	467.2	509.6	517.6
50°	10203.1	7363.0	881.2	530.9	475.1	414.1	387.5	398.1	445.9	496.4	504.3
52.5°	10428.7	7522.3	796.3	491.0	443.3	384.9	361.0	368.9	422.0	477.8	488.4
55°	11052.5	8055.8	793.6	438.0	387.5	345.1	334.4	337.1	390.2	453.9	467.2
57.5°	11562.1	8525.6	846.7	368.9	323.8	302.6	297.3	299.9	347.7	419.4	435.3
60°	9566.1	6625.1	700.7	305.2	270.7	265.4	257.5	262.8	307.9	371.6	384.9
62.5°	5661.6	3787.7	334.4	233.6	230.9	225.6	217.7	228.3	270.7	326.5	334.4
65°	1935.0	1122.8	212.3	191.1	196.4	188.5	180.5	191.1	228.3	260.1	262.8
67.5°	371.6	297.3	169.9	159.3	161.9	146.0	143.3	153.9	175.2	180.5	177.8
70°	193.8	172.5	130.1	130.1	124.8	103.5	103.5	114.1	114.1	106.2	103.5
72.5°	100.9	95.6	84.9	95.6	79.6	63.7	63.7	69.0	63.7	53.1	53.1
75°	39.8	39.8	37.2	47.8	34.5	29.2	26.5	31.9	23.9	18.6	18.6
77.5°	10.6	10.6	10.6	13.3	8.0	8.0	5.3	5.3	2.7	0.0	0.0
80°	0.0	2.7	0.0	2.7	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)