

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: P640747

Luminaire Tested: GWS-SA5E-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640747
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-SA5E-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25165.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

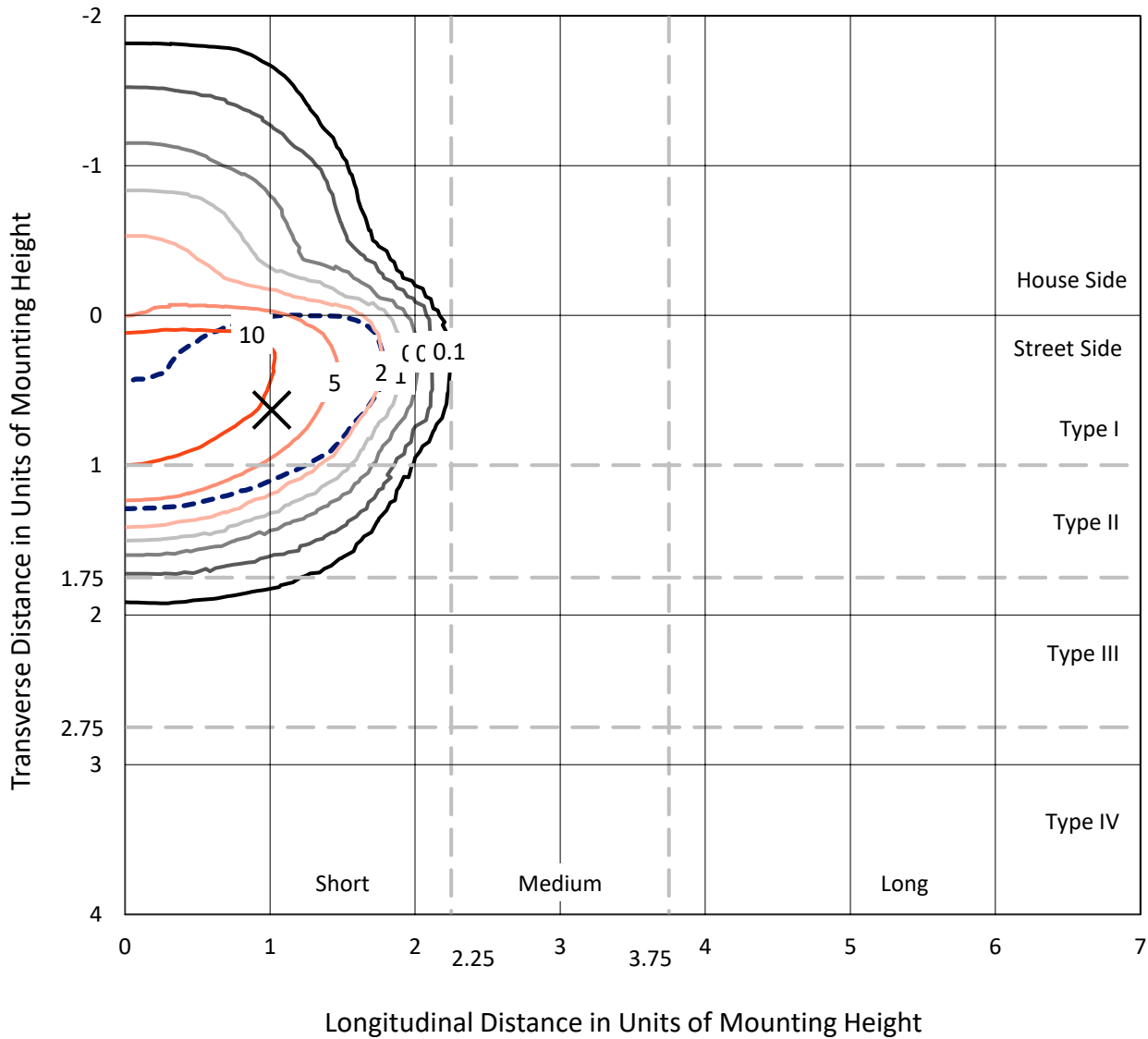
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

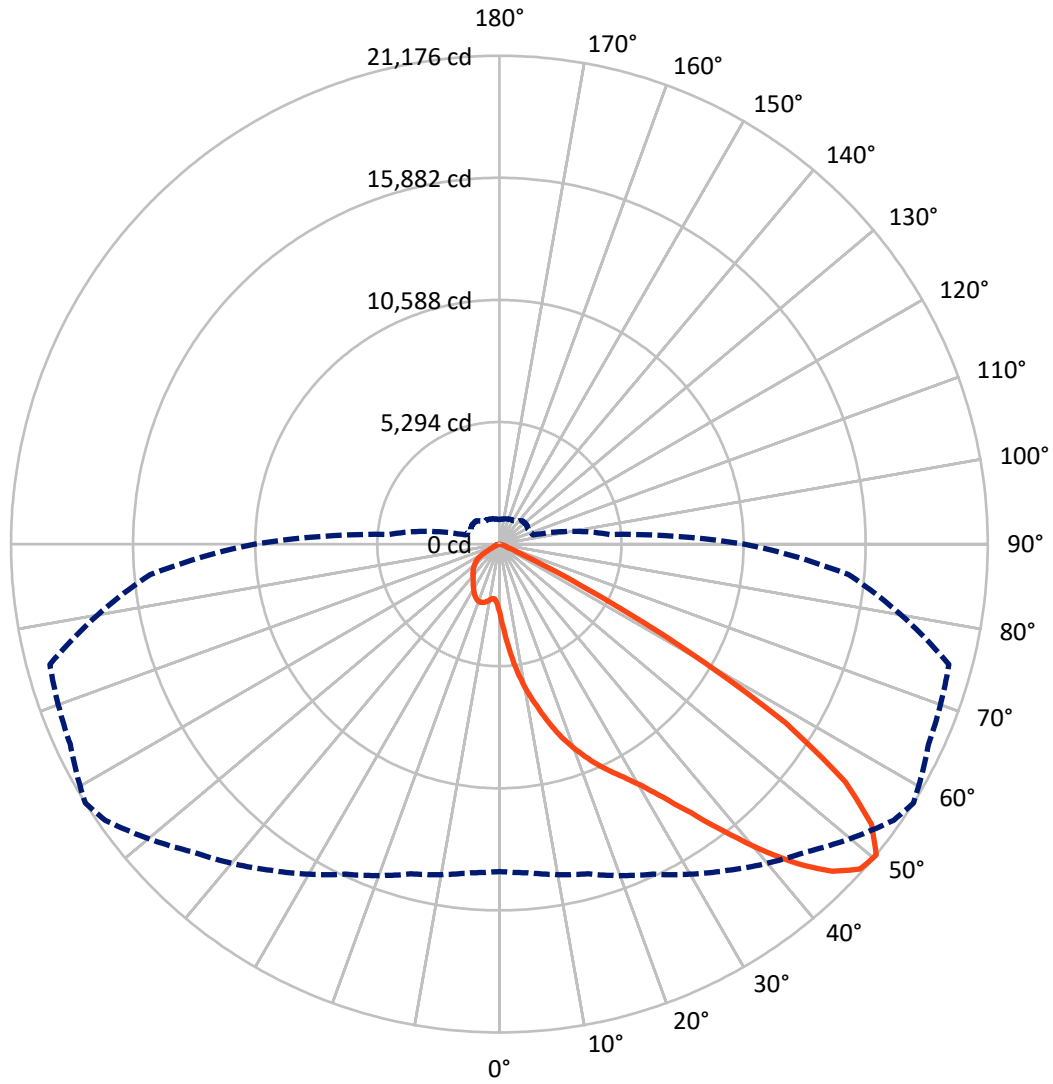
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	3524.7	0.0	3524.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21640.5	0.0	21640.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	25165.2	0.0	25165.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	1.5
10°-20°	1474.2	5.9
20°-30°	2983.1	11.9
30°-40°	5277.4	21.0
40°-50°	7693.3	30.6
50°-60°	6166.4	24.5
60°-70°	1110.9	4.4
70°-80°	87.6	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°	25165.2	100.0
0°-180°	25165.2	100.0

Coefficient of Utilization



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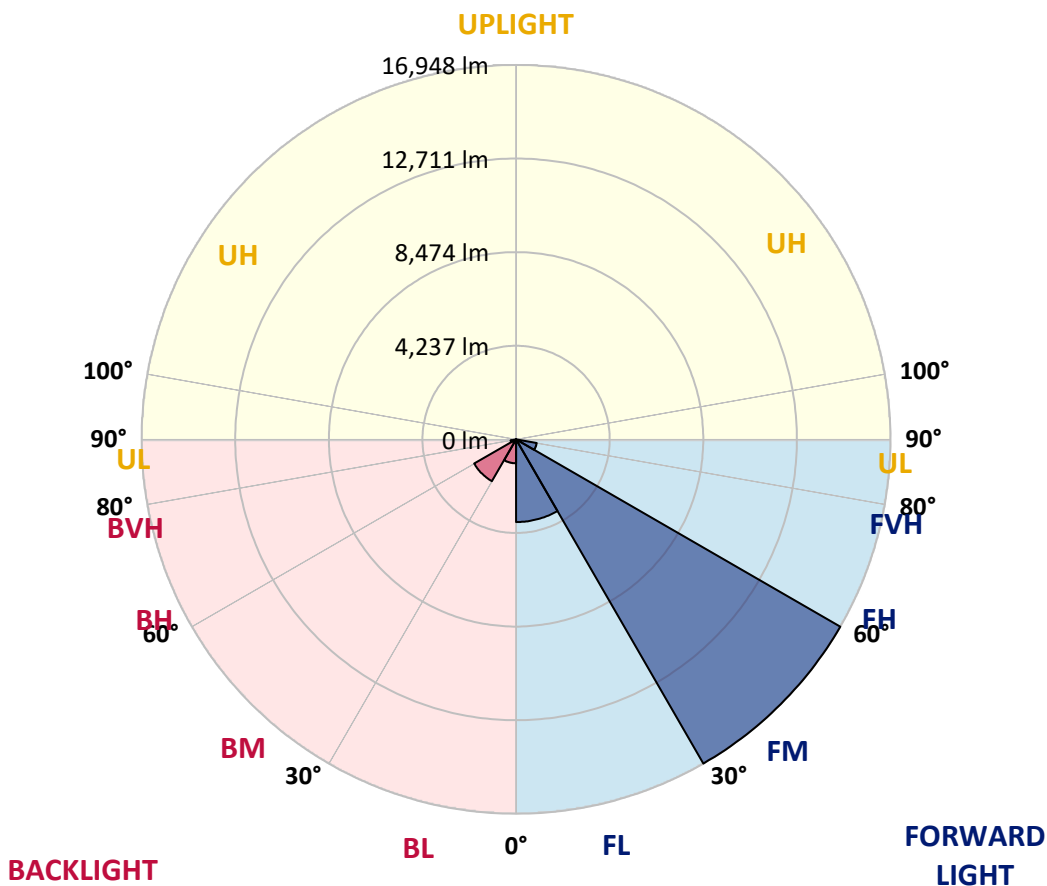
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3744.5	14.9			
FM (30°-60°)	16948.0	67.3			
FH (60°-80°)	948.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1085.1	4.3	B3/2500		
BM (30°-60°)	2189.0	8.7	B2/2500		
BH (60°-80°)	250.5	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°	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9
2.5°	4448.4	4378.4	4338.0	4305.7	4163.1	3937.1	3789.0	3711.0	3581.8	3363.9	3175.5
5°	5804.7	5753.5	5659.3	5594.8	5411.8	5091.5	4760.5	4628.7	4335.3	3842.9	3401.5
7.5°	6703.5	6665.8	6630.8	6544.7	6372.5	6081.8	5715.9	5578.6	5126.5	4426.8	3702.9
10°	7395.1	7365.5	7325.1	7322.4	7187.9	6926.8	6568.9	6426.3	5936.5	5061.9	4058.2
12.5°	8003.3	7979.1	7971.0	8046.3	7960.2	7766.5	7379.0	7201.3	6682.0	5710.5	4451.1
15°	8420.4	8415.0	8450.0	8598.0	8646.5	8557.6	8232.0	8041.0	7443.5	6361.7	4884.3
17.5°	8611.5	8627.6	8694.9	8950.5	9165.8	9241.2	8990.9	8829.4	8199.7	7021.0	5347.2
20°	8937.1	8931.7	8972.1	9214.3	9478.0	9747.1	9671.8	9534.5	8964.0	7718.0	5861.2
22.5°	9854.7	9776.7	9690.6	9728.3	9822.5	10137.3	10277.2	10207.3	9752.5	8433.9	6391.3
25°	11264.9	11184.1	10907.0	10637.9	10460.2	10602.9	10793.9	10828.9	10535.6	9168.5	6945.7
27.5°	12761.1	12688.5	12376.3	11972.6	11464.0	11216.4	11359.1	11429.0	11305.2	10043.1	7535.0
30°	14163.2	14066.3	13724.5	13224.0	12634.6	12255.2	12093.7	12142.2	12214.8	11079.2	8226.6
32.5°	15379.5	15306.9	14897.8	14370.4	13802.6	13407.0	13030.2	13111.0	13288.6	12346.7	9112.0
35°	16410.2	16372.6	15939.3	15414.5	14814.4	14612.6	14289.7	14305.8	14483.4	13877.9	10191.1
37.5°	17306.4	17241.8	16848.9	16361.8	15885.5	15853.2	15764.4	15772.4	15863.9	15662.1	11431.7
40°	17871.5	17812.3	17532.4	17231.0	16891.9	16897.3	17357.5	17392.5	17287.5	17414.0	12742.3
42.5°	18084.1	18041.0	17890.3	17893.0	17858.0	18016.8	18880.6	18945.2	18568.5	18789.1	13861.8
45°	17715.4	17696.6	17707.3	18094.8	18514.7	19004.4	20126.6	20239.6	19706.8	19701.4	14736.4
47.5°	16525.9	16488.3	16803.1	17462.4	18433.9	19386.6	20880.1	21055.0	20503.4	20223.5	15285.4
50°	14195.5	14303.1	14801.0	15791.3	17268.7	18861.8	20872.0	21176.1	20533.0	20177.7	15193.9
52.5°	10282.6	10261.1	11351.0	12712.7	14510.3	17182.6	19763.3	20207.3	19814.4	19728.3	14989.3
55°	5594.8	5791.2	6525.9	8328.9	10573.3	14004.4	17231.0	18199.8	18654.6	19564.2	15358.0
57.5°	2056.0	2142.1	2602.3	3877.9	5597.5	8708.3	13162.1	14623.3	16028.1	19106.7	15296.1
60°	828.9	845.0	1028.0	1426.3	2352.0	4432.2	7895.6	9192.7	10516.8	14626.0	11738.5
62.5°	602.8	624.3	697.0	834.2	1189.5	1937.6	3404.2	3958.6	4327.3	7244.4	5783.1
65°	487.1	503.2	562.4	624.3	785.8	1041.4	1098.0	1057.6	1052.2	1873.0	1326.7
67.5°	403.7	419.8	462.9	505.9	565.1	519.4	376.8	395.6	322.9	320.2	261.0
70°	296.0	314.9	357.9	403.7	339.1	139.9	218.0	322.9	244.9	204.5	199.1
72.5°	223.4	236.8	277.2	263.7	99.6	53.8	145.3	234.1	188.4	150.7	148.0
75°	166.8	174.9	139.9	43.1	10.8	13.5	53.8	96.9	105.0	86.1	86.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	8.1	10.8	13.5	16.1
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°	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9
2.5°	3067.8	2954.8	2793.3	2658.8	2556.5	2457.0	2381.6	2306.3	2303.6	2265.9	2257.8
5°	3197.0	2992.5	2696.5	2483.9	2354.7	2276.7	2222.8	2195.9	2182.5	2169.0	2163.6
7.5°	3382.7	3089.4	2680.3	2454.3	2346.6	2295.5	2257.8	2241.7	2233.6	2222.8	2220.1
10°	3611.4	3229.3	2739.5	2510.8	2416.6	2368.2	2327.8	2303.6	2290.1	2271.3	2265.9
12.5°	3885.9	3401.5	2833.7	2605.0	2505.4	2440.8	2387.0	2352.0	2333.2	2308.9	2303.6
15°	4181.9	3587.2	2938.7	2691.1	2572.7	2489.3	2422.0	2368.2	2333.2	2303.6	2295.5
17.5°	4488.7	3775.6	3032.9	2750.3	2605.0	2505.4	2408.5	2335.9	2292.8	2255.1	2244.4
20°	4833.2	3969.3	3094.7	2761.1	2594.2	2462.3	2349.3	2257.8	2214.8	2163.6	2152.9
22.5°	5193.8	4149.7	3121.7	2736.8	2535.0	2381.6	2260.5	2166.3	2104.4	2050.6	2034.5
25°	5543.6	4311.1	3108.2	2669.6	2446.2	2268.6	2144.8	2047.9	1980.6	1926.8	1913.4
27.5°	5915.0	4445.7	3059.8	2570.0	2325.1	2144.8	2026.4	1943.0	1881.1	1821.9	1808.4
30°	6332.1	4569.5	2981.7	2448.9	2182.5	2018.3	1926.8	1870.3	1803.0	1741.1	1722.3
32.5°	6835.4	4679.8	2868.7	2303.6	2056.0	1908.0	1856.8	1813.8	1735.7	1671.2	1657.7
35°	7411.2	4771.3	2726.1	2152.9	1932.2	1838.0	1827.2	1770.7	1668.5	1593.1	1577.0
37.5°	8078.6	4860.1	2556.5	2004.9	1840.7	1805.7	1808.4	1711.5	1587.7	1496.2	1485.5
40°	8797.2	4948.9	2368.2	1875.7	1757.3	1786.9	1762.7	1625.4	1423.6	1334.8	1324.0
42.5°	9545.3	5045.8	2177.1	1754.6	1687.3	1714.2	1679.2	1453.2	1307.9	1262.1	1256.7
45°	10220.7	5161.5	1969.9	1633.5	1617.3	1609.3	1550.1	1315.9	1254.0	1221.8	1219.1
47.5°	10707.8	5142.7	1749.2	1517.8	1542.0	1515.1	1334.8	1251.4	1200.2	1157.2	1146.4
50°	10619.0	4814.3	1520.5	1388.6	1445.1	1420.9	1200.2	1176.0	1130.3	1084.5	1068.4
52.5°	10393.0	4367.6	1321.3	1251.4	1340.2	1283.6	1108.7	1084.5	1044.1	984.9	966.1
55°	10514.1	3947.8	1165.2	1141.0	1232.5	1063.0	1006.5	968.8	925.7	861.1	853.1
57.5°	10123.9	3221.2	936.5	952.6	1089.9	906.9	882.7	823.5	750.8	707.8	702.4
60°	7007.6	1730.4	586.7	605.5	788.5	761.6	791.2	737.4	648.6	608.2	600.1
62.5°	3218.5	694.3	320.2	306.8	414.4	516.7	678.2	672.8	562.4	497.9	492.5
65°	780.4	317.5	228.7	215.3	234.1	309.5	441.3	530.1	454.8	379.4	371.4
67.5°	253.0	258.3	209.9	196.4	207.2	231.4	263.7	293.3	290.6	266.4	261.0
70°	201.8	234.1	193.8	177.6	177.6	185.7	177.6	142.6	123.8	134.6	139.9
72.5°	150.7	177.6	153.4	137.2	131.9	129.2	110.3	80.7	56.5	51.1	48.4
75°	88.8	99.6	94.2	80.7	75.4	67.3	53.8	35.0	18.8	13.5	8.1
77.5°	16.1	18.8	21.5	16.1	13.5	10.8	8.1	2.7	0.0	0.0	0.0
80°	0.0	2.7	2.7	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)