

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: P639812

Luminaire Tested: GWS-SA5C-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639812  
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-SA5C-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

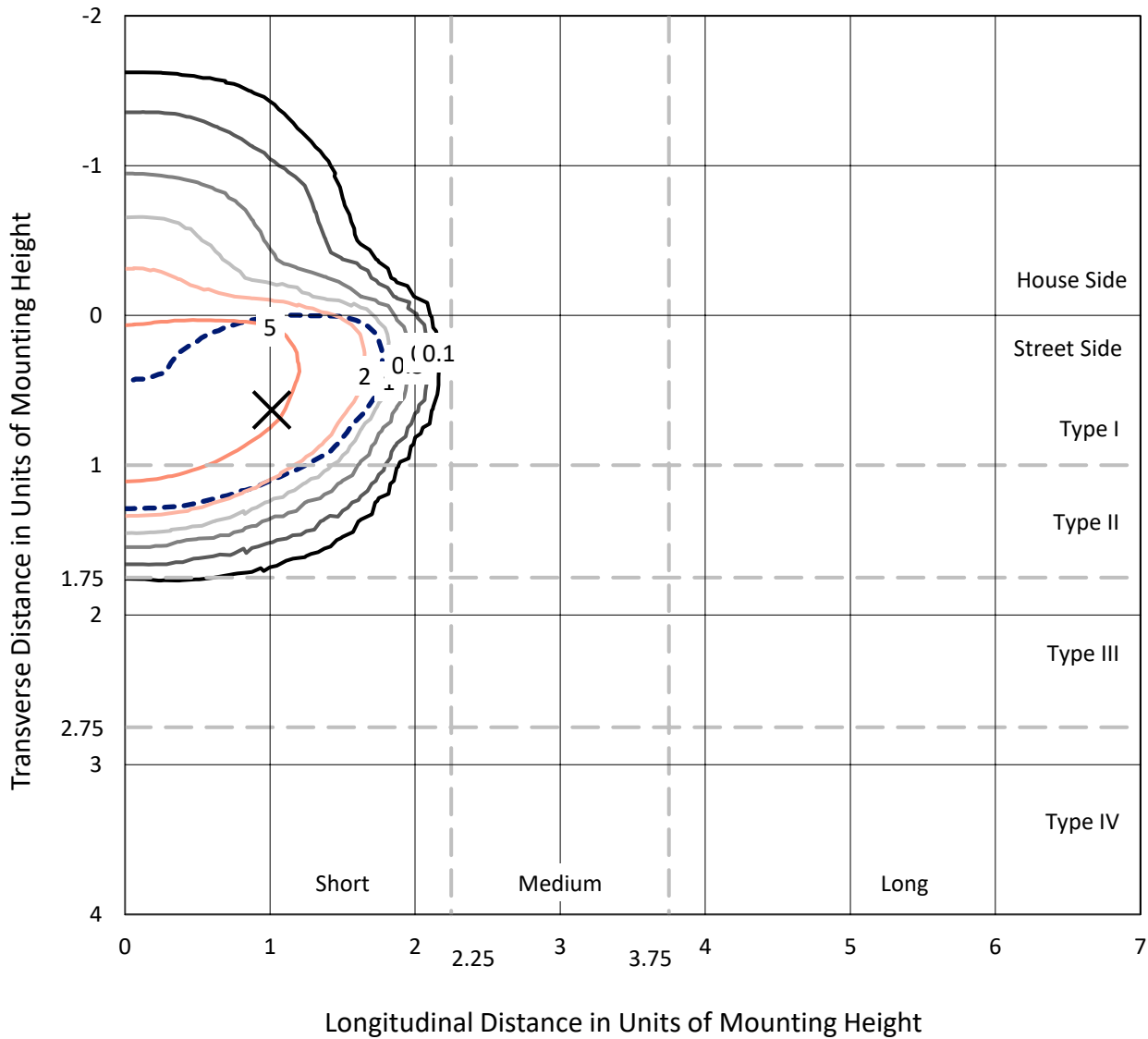
Lumens per Lamp: N/A  
Luminaire Lumens: 16328.4 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

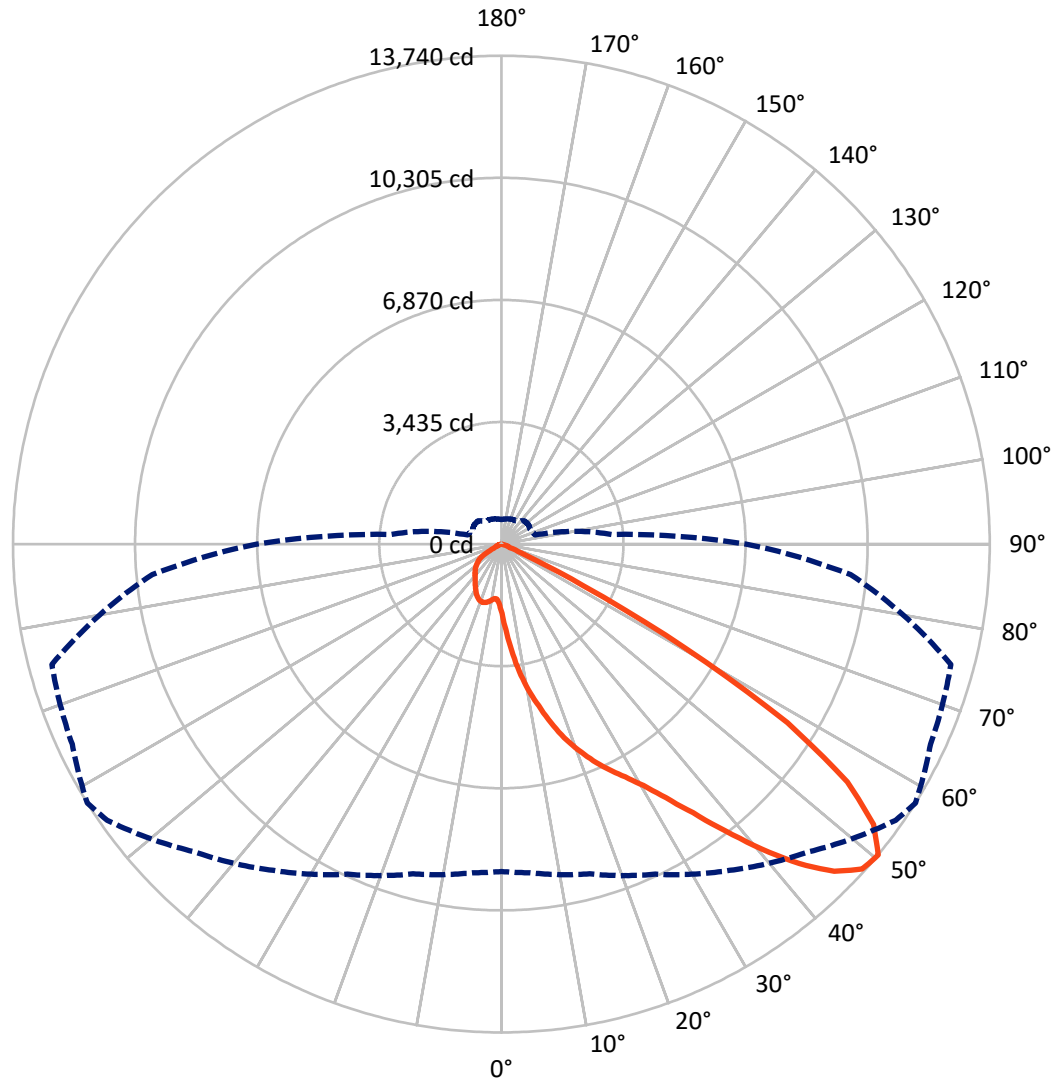
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P639812  
CATALOG NUMBER: GWS-SA5C-750-U-T2R-W-GRSBK

### 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
<b>House Side</b>	Lumens	2287.0	0.0	2287.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14041.4	0.0	14041.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16328.4	0.0	16328.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.6	1.5
10°-20°	956.5	5.9
20°-30°	1935.6	11.9
30°-40°	3424.2	21.0
40°-50°	4991.8	30.6
50°-60°	4001.0	24.5
60°-70°	720.8	4.4
70°-80°	56.8	0.3
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°	16328.4	100.0
0°-180°	16328.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639812

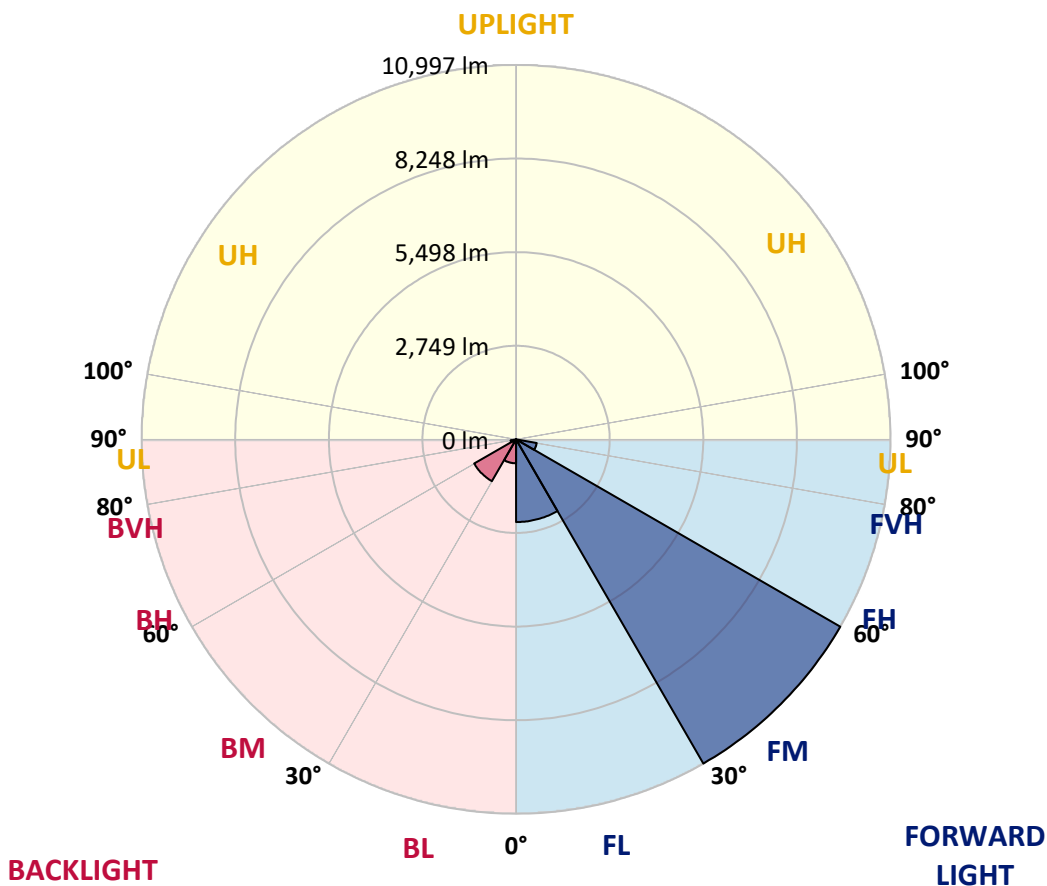
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.6	14.9			
FM (30°-60°)	10996.7	67.3			
FH (60°-80°)	615.1	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	704.1	4.3	B2/1000		
BM (30°-60°)	1420.3	8.7	B2/2500		
BH (60°-80°)	162.5	1.0	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4
2.5°	2886.3	2840.9	2814.7	2793.8	2701.2	2554.6	2458.5	2407.9	2324.1	2182.6	2060.4
5°	3766.3	3733.2	3672.1	3630.2	3511.4	3303.6	3088.9	3003.3	2813.0	2493.4	2207.1
7.5°	4349.5	4325.1	4302.4	4246.5	4134.8	3946.2	3708.7	3619.7	3326.3	2872.3	2402.6
10°	4798.3	4779.1	4752.9	4751.2	4663.8	4494.5	4262.2	4169.7	3851.9	3284.4	2633.1
12.5°	5192.9	5177.2	5172.0	5220.9	5165.0	5039.3	4787.8	4672.6	4335.6	3705.2	2888.1
15°	5463.6	5460.1	5482.8	5578.8	5610.2	5552.6	5341.3	5217.4	4829.7	4127.8	3169.2
17.5°	5587.5	5598.0	5641.7	5807.5	5947.2	5996.1	5833.7	5729.0	5320.4	4555.6	3469.5
20°	5798.8	5795.3	5821.5	5978.7	6149.8	6324.4	6275.5	6186.5	5816.3	5007.8	3803.0
22.5°	6394.2	6343.6	6287.7	6312.2	6373.3	6577.6	6668.4	6623.0	6327.9	5472.3	4147.0
25°	7309.2	7256.8	7077.0	6902.4	6787.1	6879.7	7003.6	7026.3	6836.0	5949.0	4506.7
27.5°	8280.0	8232.9	8030.3	7768.4	7438.4	7277.8	7370.3	7415.7	7335.4	6516.5	4889.1
30°	9189.8	9126.9	8905.1	8580.4	8198.0	7951.8	7847.0	7878.4	7925.6	7188.7	5337.8
32.5°	9979.0	9931.8	9666.4	9324.2	8955.8	8699.1	8454.6	8507.0	8622.3	8011.1	5912.3
35°	10647.7	10623.3	10342.2	10001.7	9612.3	9481.4	9271.8	9282.3	9397.5	9004.7	6612.5
37.5°	11229.2	11187.3	10932.4	10616.3	10307.3	10286.3	10228.7	10233.9	10293.3	10162.3	7417.5
40°	11595.9	11557.5	11375.9	11180.3	10960.3	10963.8	11262.4	11285.1	11217.0	11299.0	8267.8
42.5°	11733.8	11705.9	11608.1	11609.9	11587.2	11690.2	12250.7	12292.6	12048.1	12191.3	8994.2
45°	11494.6	11482.4	11489.4	11740.8	12013.2	12331.0	13059.1	13132.5	12786.7	12783.2	9561.7
47.5°	10722.8	10698.4	10902.7	11330.5	11960.8	12578.9	13548.0	13661.5	13303.6	13122.0	9917.9
50°	9210.7	9280.5	9603.6	10246.1	11204.8	12238.5	13542.8	13740.1	13322.8	13092.3	9858.5
52.5°	6671.9	6657.9	7365.1	8248.6	9415.0	11148.9	12823.4	13111.5	12856.6	12800.7	9725.8
55°	3630.2	3757.6	4234.3	5404.2	6860.4	9086.7	11180.3	11808.9	12104.0	12694.2	9965.0
57.5°	1334.0	1389.9	1688.5	2516.1	3631.9	5650.4	8540.2	9488.3	10399.8	12397.3	9924.9
60°	537.8	548.3	667.0	925.4	1526.1	2875.8	5123.1	5964.7	6823.8	9490.1	7616.5
62.5°	391.1	405.1	452.2	541.3	771.8	1257.2	2208.8	2568.5	2807.7	4700.5	3752.4
65°	316.0	326.5	364.9	405.1	509.9	675.7	712.4	686.2	682.7	1215.3	860.8
67.5°	261.9	272.4	300.3	328.3	366.7	337.0	244.5	256.7	209.5	207.8	169.4
70°	192.1	204.3	232.2	261.9	220.0	90.8	141.4	209.5	158.9	132.7	129.2
72.5°	144.9	153.7	179.8	171.1	64.6	34.9	94.3	151.9	122.2	97.8	96.0
75°	108.3	113.5	90.8	27.9	7.0	8.7	34.9	62.9	68.1	55.9	55.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.2	7.0	8.7	10.5
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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CATALOG NUMBER: GWS-SA5C-750-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4	1950.4
2.5°	1990.6	1917.2	1812.5	1725.2	1658.8	1594.2	1545.3	1496.4	1494.7	1470.2	1465.0
5°	2074.4	1941.7	1749.6	1611.7	1527.8	1477.2	1442.3	1424.8	1416.1	1407.4	1403.9
7.5°	2194.9	2004.5	1739.1	1592.4	1522.6	1489.4	1465.0	1454.5	1449.3	1442.3	1440.5
10°	2343.3	2095.3	1777.5	1629.1	1568.0	1536.6	1510.4	1494.7	1485.9	1473.7	1470.2
12.5°	2521.4	2207.1	1838.6	1690.2	1625.6	1583.7	1548.8	1526.1	1513.9	1498.2	1494.7
15°	2713.4	2327.6	1906.7	1746.1	1669.3	1615.1	1571.5	1536.6	1513.9	1494.7	1489.4
17.5°	2912.5	2449.8	1967.9	1784.5	1690.2	1625.6	1562.8	1515.6	1487.7	1463.2	1456.3
20°	3136.0	2575.5	2008.0	1791.5	1683.2	1597.7	1524.3	1465.0	1437.0	1403.9	1396.9
22.5°	3370.0	2692.5	2025.5	1775.8	1644.8	1545.3	1466.7	1405.6	1365.5	1330.5	1320.1
25°	3597.0	2797.3	2016.8	1732.1	1587.2	1472.0	1391.6	1328.8	1285.1	1250.2	1241.5
27.5°	3837.9	2884.6	1985.3	1667.5	1508.6	1391.6	1314.8	1260.7	1220.5	1182.1	1173.4
30°	4108.6	2964.9	1934.7	1589.0	1416.1	1309.6	1250.2	1213.5	1169.9	1129.7	1117.5
32.5°	4435.1	3036.5	1861.3	1494.7	1334.0	1238.0	1204.8	1176.9	1126.2	1084.3	1075.6
35°	4808.8	3095.8	1768.8	1396.9	1253.7	1192.6	1185.6	1148.9	1082.6	1033.7	1023.2
37.5°	5241.8	3153.5	1658.8	1300.8	1194.3	1171.6	1173.4	1110.5	1030.2	970.8	963.8
40°	5708.0	3211.1	1536.6	1217.0	1140.2	1159.4	1143.7	1054.6	923.7	866.1	859.1
42.5°	6193.4	3273.9	1412.6	1138.5	1094.8	1112.3	1089.6	942.9	848.6	818.9	815.4
45°	6631.7	3349.0	1278.1	1059.9	1049.4	1044.2	1005.8	853.8	813.7	792.7	791.0
47.5°	6947.8	3336.8	1135.0	984.8	1000.5	983.1	866.1	811.9	778.8	750.8	743.8
50°	6890.1	3123.8	986.5	901.0	937.7	921.9	778.8	763.0	733.4	703.7	693.2
52.5°	6743.5	2833.9	857.3	811.9	869.6	832.9	719.4	703.7	677.5	639.1	626.9
55°	6822.0	2561.5	756.1	740.3	799.7	689.7	653.0	628.6	600.7	558.8	553.5
57.5°	6568.8	2090.1	607.6	618.1	707.2	588.4	572.7	534.3	487.2	459.2	455.7
60°	4546.9	1122.7	380.7	392.9	511.6	494.1	513.4	478.4	420.8	394.6	389.4
62.5°	2088.3	450.5	207.8	199.1	268.9	335.3	440.0	436.5	364.9	323.0	319.5
65°	506.4	206.0	148.4	139.7	151.9	200.8	286.4	344.0	295.1	246.2	241.0
67.5°	164.1	167.6	136.2	127.5	134.5	150.2	171.1	190.3	188.6	172.9	169.4
70°	131.0	151.9	125.7	115.2	115.2	120.5	115.2	92.5	80.3	87.3	90.8
72.5°	97.8	115.2	99.5	89.1	85.6	83.8	71.6	52.4	36.7	33.2	31.4
75°	57.6	64.6	61.1	52.4	48.9	43.7	34.9	22.7	12.2	8.7	5.2
77.5°	10.5	12.2	14.0	10.5	8.7	7.0	5.2	1.7	0.0	0.0	0.0
80°	0.0	1.7	1.7	1.7	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)