

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: P640362

Luminaire Tested: GWS-SA5D-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640362
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-SA5D-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20317 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

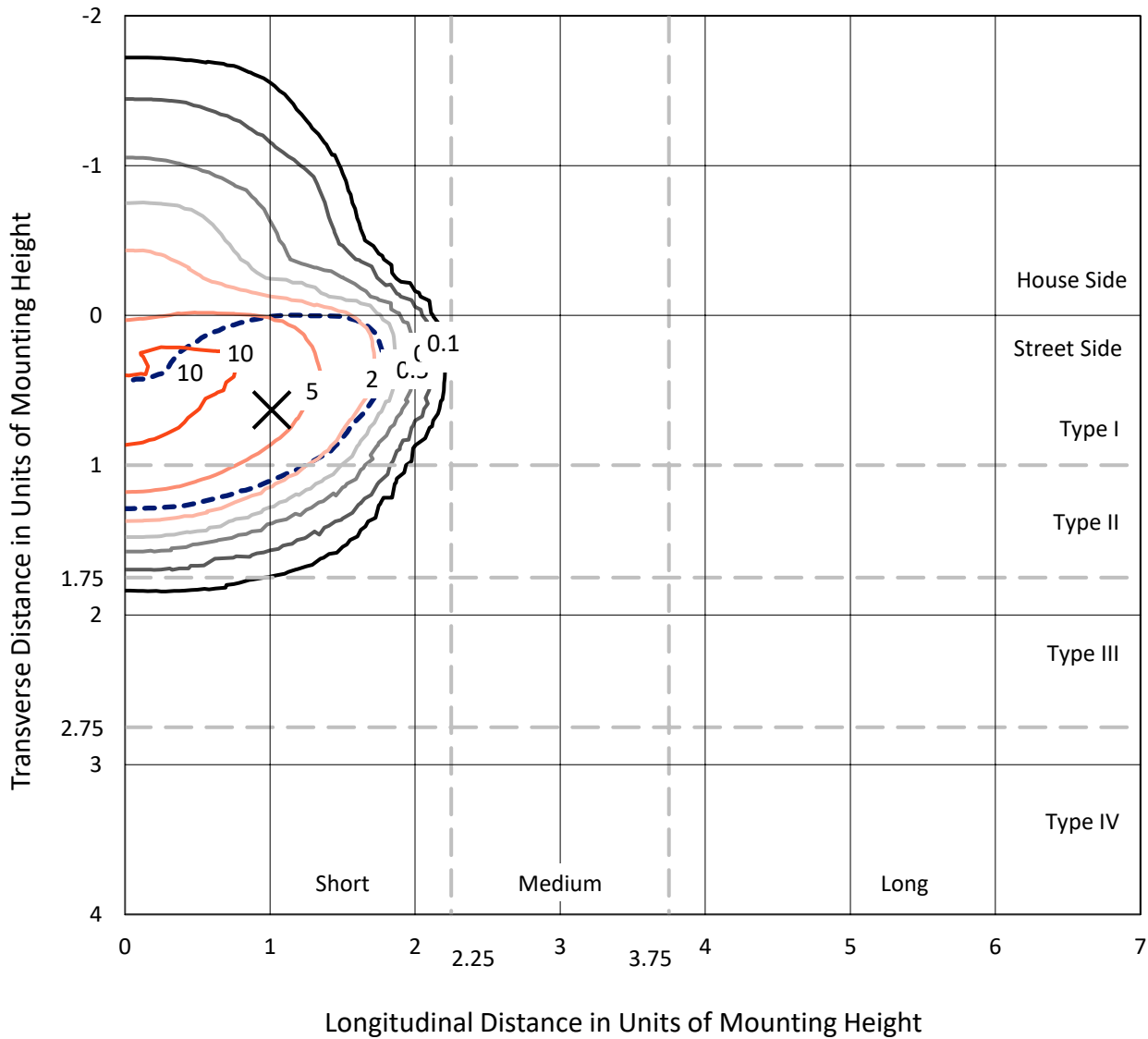
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640362
 CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

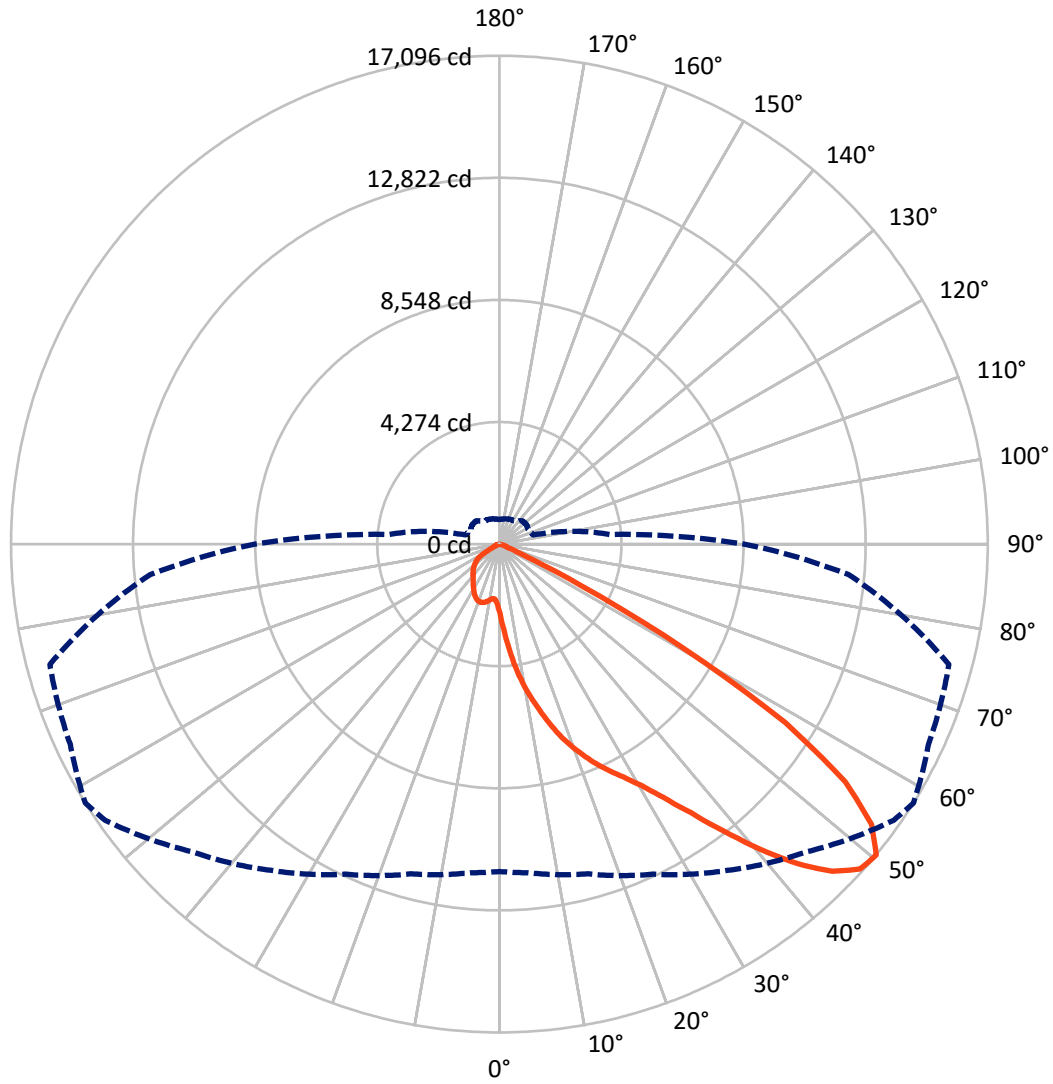
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

REPORT NUMBER: P640362
CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P640362

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2845.7	0.0	2845.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17471.3	0.0	17471.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	20317.0	0.0	20317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.5
10°-20°	1190.2	5.9
20°-30°	2408.4	11.9
30°-40°	4260.7	21.0
40°-50°	6211.1	30.6
50°-60°	4978.4	24.5
60°-70°	896.9	4.4
70°-80°	70.7	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°	20317.0	100.0
0°-180°	20317.0	100.0

Coefficient of Utilization



REPORT NUMBER: P640362

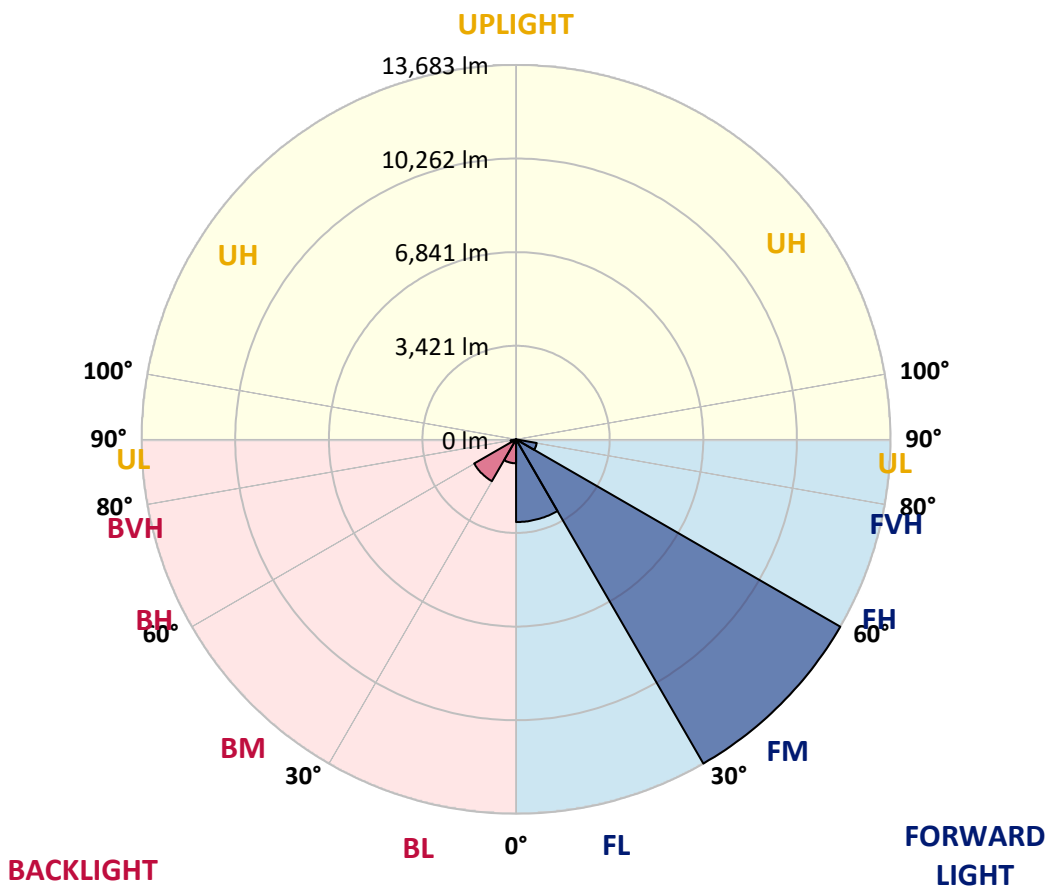
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.1	14.9			
FM (30°-60°)	13682.9	67.3			
FH (60°-80°)	765.3	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	876.1	4.3	B2/1000		
BM (30°-60°)	1767.3	8.7	B2/2500		
BH (60°-80°)	202.3	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





REPORT NUMBER: P640362

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8
2.5°	3591.4	3534.9	3502.3	3476.2	3361.1	3178.6	3059.1	2996.1	2891.8	2715.8	2563.7
5°	4686.4	4645.1	4569.0	4516.9	4369.2	4110.6	3843.4	3736.9	3500.1	3102.5	2746.2
7.5°	5412.0	5381.6	5353.4	5283.8	5144.8	4910.1	4614.7	4503.9	4138.9	3574.0	2989.5
10°	5970.4	5946.5	5913.9	5911.7	5803.1	5592.4	5303.4	5188.2	4792.8	4086.7	3276.3
12.5°	6461.4	6441.9	6435.3	6496.2	6426.6	6270.2	5957.4	5814.0	5394.6	4610.3	3593.5
15°	6798.2	6793.8	6822.1	6941.6	6980.7	6909.0	6646.1	6491.8	6009.5	5136.1	3943.3
17.5°	6952.4	6965.5	7019.8	7226.2	7400.0	7460.8	7258.8	7128.4	6620.0	5668.4	4317.0
20°	7215.3	7211.0	7243.6	7439.1	7652.0	7869.3	7808.4	7697.6	7237.0	6231.1	4732.0
22.5°	7956.2	7893.2	7823.7	7854.1	7930.1	8184.3	8297.3	8240.8	7873.6	6809.0	5160.0
25°	9094.6	9029.5	8805.7	8588.4	8445.0	8560.2	8714.4	8742.7	8505.9	7402.2	5607.6
27.5°	10302.6	10244.0	9991.9	9666.0	9255.4	9055.5	9170.7	9227.2	9127.2	8108.3	6083.4
30°	11434.6	11356.4	11080.4	10676.3	10200.5	9894.2	9763.8	9802.9	9861.6	8944.7	6641.7
32.5°	12416.6	12357.9	12027.7	11601.9	11143.4	10824.1	10519.9	10585.1	10728.5	9968.0	7356.5
35°	13248.7	13218.3	12868.5	12444.8	11960.3	11797.4	11536.7	11549.7	11693.1	11204.3	8227.8
37.5°	13972.2	13920.1	13602.9	13209.6	12825.1	12799.0	12727.3	12733.8	12807.7	12644.7	9229.3
40°	14428.5	14380.7	14154.7	13911.4	13637.6	13642.0	14013.5	14041.7	13957.0	14059.1	10287.4
42.5°	14600.1	14565.3	14443.7	14445.8	14417.6	14545.8	15243.2	15295.3	14991.2	15169.3	11191.2
45°	14302.4	14287.2	14295.9	14608.8	14947.7	15343.1	16249.1	16340.4	15910.2	15905.8	11897.3
47.5°	13342.1	13311.7	13565.9	14098.2	14882.5	15651.6	16857.5	16998.7	16553.3	16327.3	12340.6
50°	11460.6	11547.5	11949.5	12749.0	13941.8	15228.0	16850.9	17096.4	16577.2	16290.4	12266.7
52.5°	8301.6	8284.2	9164.2	10263.5	11714.8	13872.3	15955.8	16314.3	15997.1	15927.6	12101.6
55°	4516.9	4675.5	5268.6	6724.3	8536.3	11306.4	13911.4	14693.5	15060.7	15795.0	12399.2
57.5°	1659.9	1729.4	2100.9	3130.8	4519.1	7030.6	10626.3	11806.1	12940.2	15425.7	12349.2
60°	669.2	682.2	829.9	1151.5	1898.9	3578.3	6374.5	7421.7	8490.6	11808.3	9477.0
62.5°	486.7	504.1	562.7	673.5	960.3	1564.3	2748.4	3195.9	3493.6	5848.7	4669.0
65°	393.2	406.3	454.1	504.1	634.4	840.8	886.4	853.8	849.5	1512.2	1071.1
67.5°	325.9	338.9	373.7	408.5	456.3	419.3	304.2	319.4	260.7	258.5	210.7
70°	239.0	254.2	289.0	325.9	273.8	113.0	176.0	260.7	197.7	165.1	160.8
72.5°	180.3	191.2	223.8	212.9	80.4	43.5	117.3	189.0	152.1	121.7	119.5
75°	134.7	141.2	113.0	34.8	8.7	10.9	43.5	78.2	84.7	69.5	69.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.5	8.7	10.9	13.0
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



REPORT NUMBER: P640362

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8	2426.8
2.5°	2476.8	2385.6	2255.2	2146.6	2064.0	1983.6	1922.8	1861.9	1859.8	1829.4	1822.8
5°	2581.1	2416.0	2177.0	2005.3	1901.1	1838.0	1794.6	1772.9	1762.0	1751.1	1746.8
7.5°	2731.0	2494.2	2163.9	1981.4	1894.5	1853.3	1822.8	1809.8	1803.3	1794.6	1792.4
10°	2915.7	2607.2	2211.7	2027.1	1951.0	1911.9	1879.3	1859.8	1848.9	1833.7	1829.4
12.5°	3137.3	2746.2	2287.8	2103.1	2022.7	1970.6	1927.1	1898.9	1883.7	1864.1	1859.8
15°	3376.3	2896.1	2372.5	2172.6	2077.0	2009.7	1955.4	1911.9	1883.7	1859.8	1853.3
17.5°	3624.0	3048.2	2448.6	2220.4	2103.1	2022.7	1944.5	1885.8	1851.1	1820.7	1812.0
20°	3902.0	3204.6	2498.5	2229.1	2094.4	1988.0	1896.7	1822.8	1788.1	1746.8	1738.1
22.5°	4193.2	3350.2	2520.3	2209.6	2046.6	1922.8	1825.0	1749.0	1699.0	1655.5	1642.5
25°	4475.6	3480.6	2509.4	2155.3	1974.9	1831.5	1731.6	1653.4	1599.1	1555.6	1544.7
27.5°	4775.4	3589.2	2470.3	2074.9	1877.2	1731.6	1636.0	1568.6	1518.7	1470.9	1460.0
30°	5112.2	3689.1	2407.3	1977.1	1762.0	1629.5	1555.6	1510.0	1455.7	1405.7	1390.5
32.5°	5518.5	3778.2	2316.0	1859.8	1659.9	1540.4	1499.1	1464.4	1401.3	1349.2	1338.3
35°	5983.4	3852.1	2200.9	1738.1	1560.0	1483.9	1475.2	1429.6	1347.0	1286.2	1273.2
37.5°	6522.2	3923.8	2064.0	1618.6	1486.1	1457.8	1460.0	1381.8	1281.9	1208.0	1199.3
40°	7102.3	3995.5	1911.9	1514.3	1418.7	1442.6	1423.1	1312.3	1149.3	1077.6	1068.9
42.5°	7706.3	4073.7	1757.7	1416.6	1362.2	1384.0	1355.7	1173.2	1055.9	1019.0	1014.6
45°	8251.7	4167.1	1590.4	1318.8	1305.8	1299.2	1251.4	1062.4	1012.4	986.4	984.2
47.5°	8644.9	4151.9	1412.2	1225.4	1244.9	1223.2	1077.6	1010.3	969.0	934.2	925.5
50°	8573.2	3886.8	1227.5	1121.1	1166.7	1147.2	969.0	949.4	912.5	875.6	862.5
52.5°	8390.7	3526.2	1066.8	1010.3	1082.0	1036.3	895.1	875.6	843.0	795.2	780.0
55°	8488.5	3187.3	940.7	921.2	995.1	858.2	812.6	782.1	747.4	695.2	688.7
57.5°	8173.4	2600.6	756.1	769.1	879.9	732.2	712.6	664.8	606.2	571.4	567.1
60°	5657.5	1397.0	473.6	488.8	636.6	614.9	638.8	595.3	523.6	491.0	484.5
62.5°	2598.5	560.5	258.5	247.7	334.6	417.1	547.5	543.2	454.1	401.9	397.6
65°	630.1	256.4	184.7	173.8	189.0	249.9	356.3	428.0	367.2	306.3	299.8
67.5°	204.2	208.6	169.5	158.6	167.3	186.8	212.9	236.8	234.6	215.1	210.7
70°	162.9	189.0	156.4	143.4	143.4	149.9	143.4	115.1	99.9	108.6	113.0
72.5°	121.7	143.4	123.8	110.8	106.5	104.3	89.1	65.2	45.6	41.3	39.1
75°	71.7	80.4	76.0	65.2	60.8	54.3	43.5	28.2	15.2	10.9	6.5
77.5°	13.0	15.2	17.4	13.0	10.9	8.7	6.5	2.2	0.0	0.0	0.0
80°	0.0	2.2	2.2	2.2	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)