

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: P639378

Luminaire Tested: GWS-SA5B-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13151.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

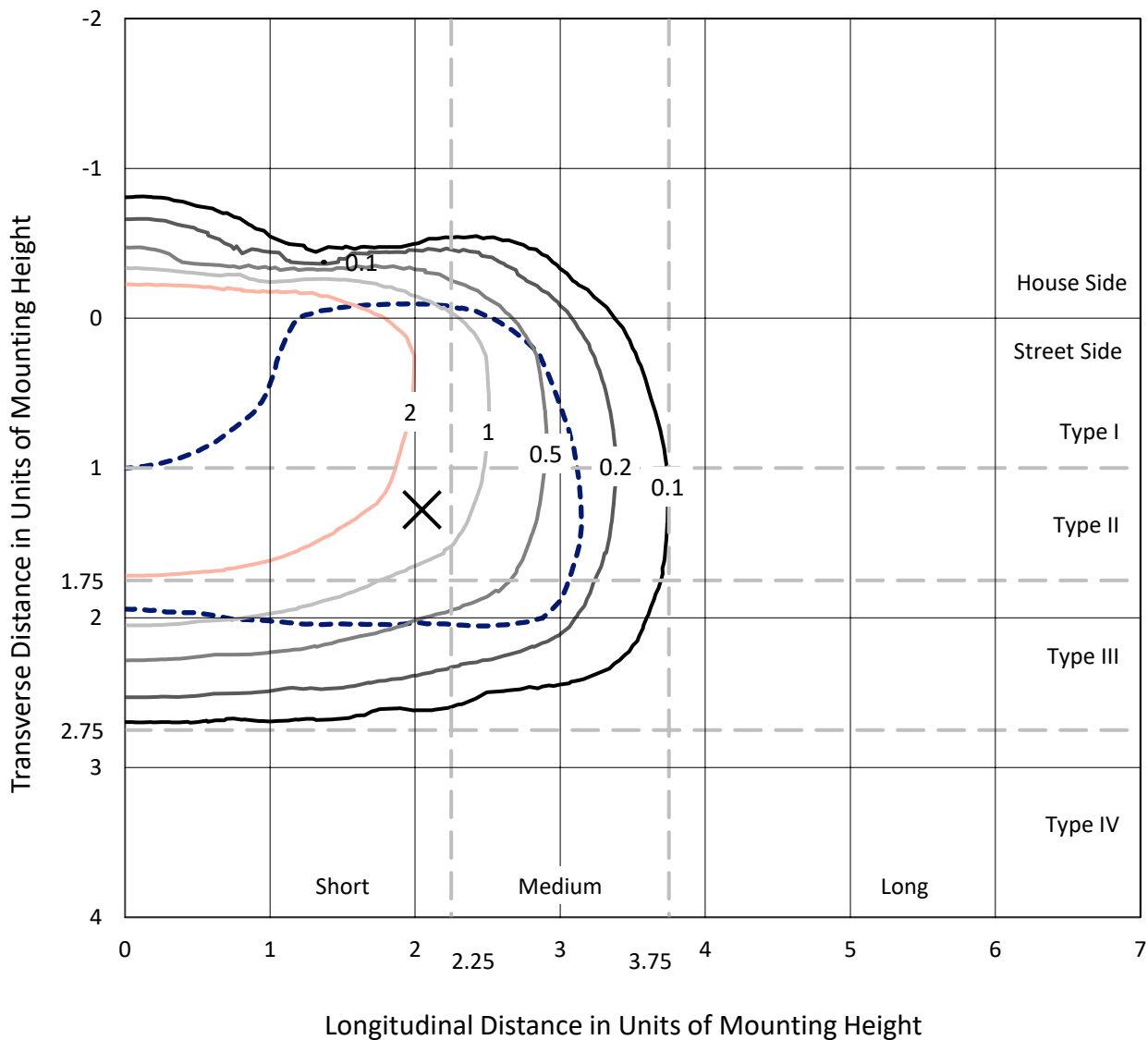
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

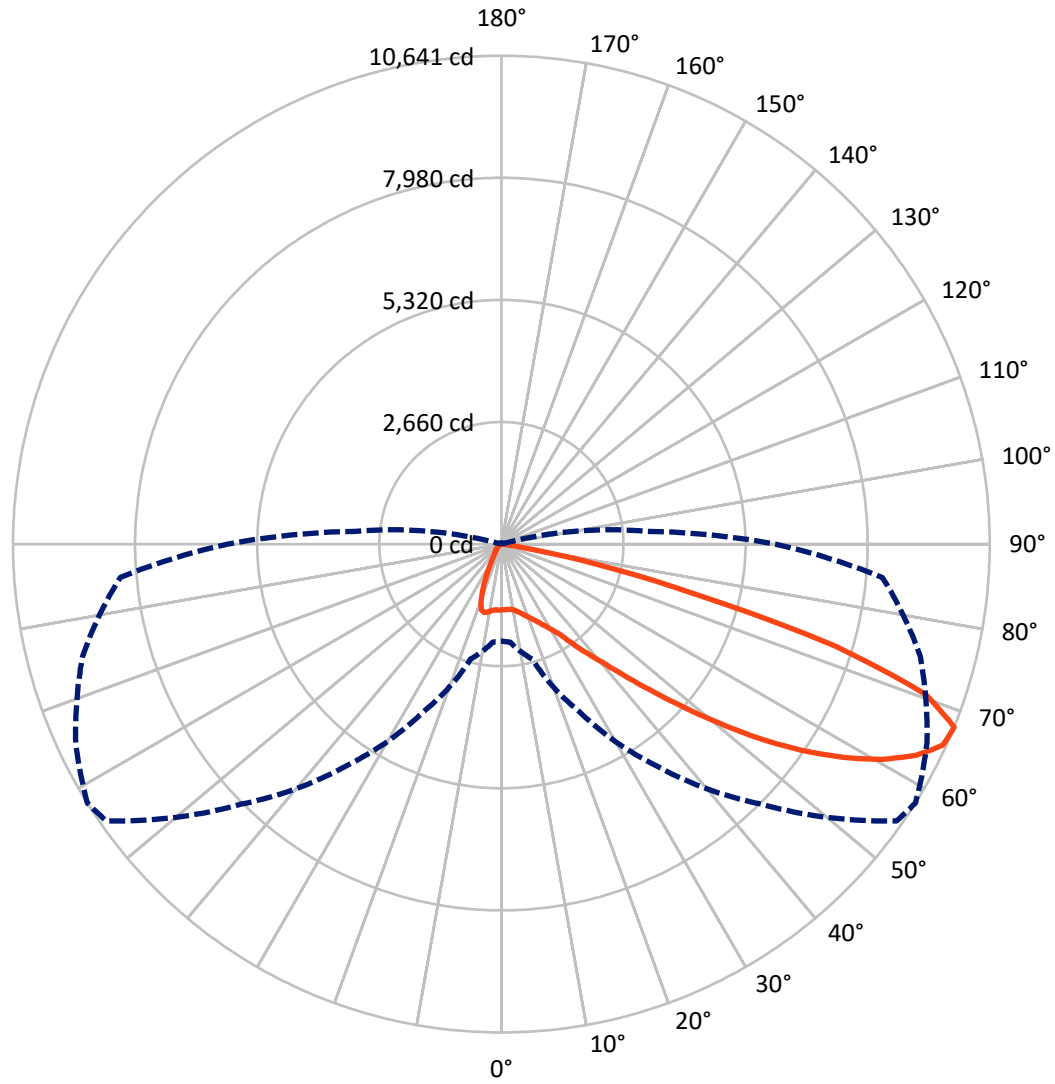
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.8	0.0	1434.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	11716.6	0.0	11716.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	13151.4	0.0	13151.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.0
10°-20°	378.0	2.9
20°-30°	659.8	5.0
30°-40°	1178.3	9.0
40°-50°	2153.7	16.4
50°-60°	3581.8	27.2
60°-70°	3890.4	29.6
70°-80°	1142.3	8.7
80°-90°	32.5	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°	13151.4	100.0
0°-180°	13151.4	100.0

Coefficient of Utilization



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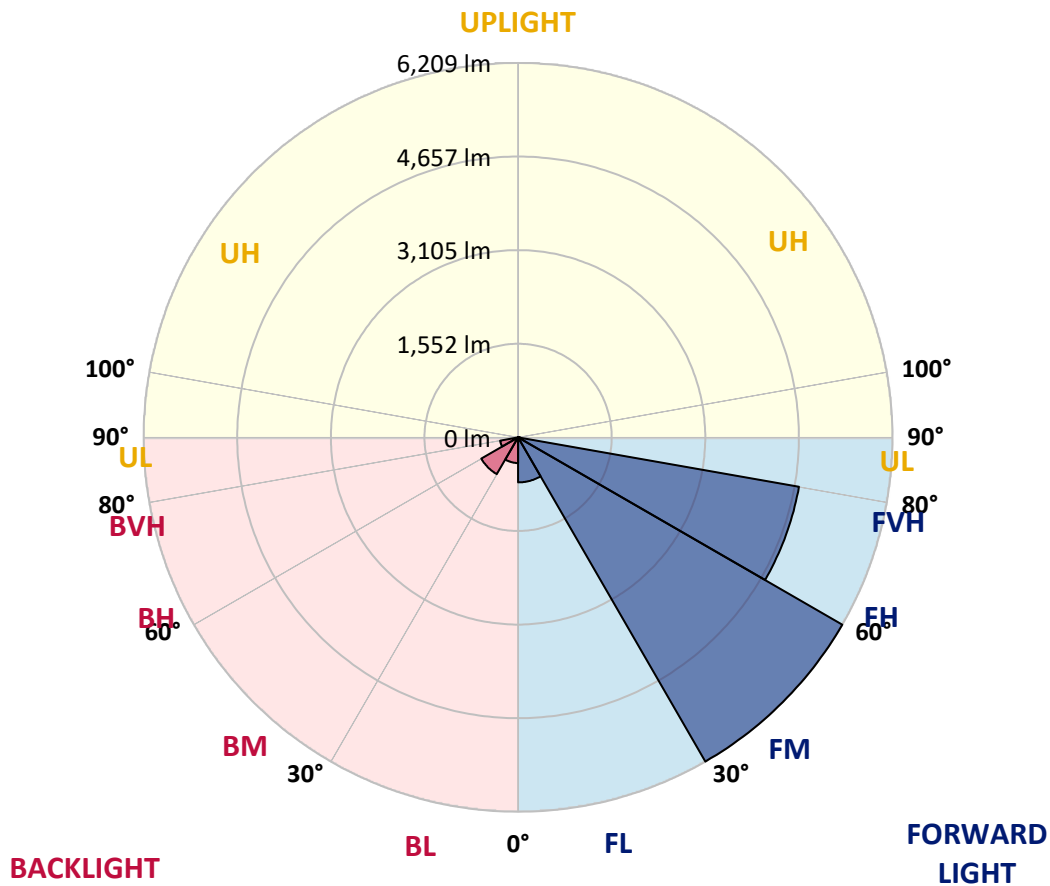
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.8	5.7			
FM (30°-60°)	6209.0	47.2			
FH (60°-80°)	4729.8	36.0			G2/5000
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	425.6	3.2	B1/500		
BM (30°-60°)	704.7	5.4	B1/1000		
BH (60°-80°)	302.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1406.1	1403.6	1403.6	1413.8	1415.1	1420.3	1431.8	1433.1	1439.5	1437.0	1428.0
5°	1332.9	1334.2	1341.9	1359.9	1375.3	1394.6	1422.8	1429.3	1443.4	1451.1	1446.0
7.5°	1264.9	1266.2	1277.7	1306.0	1335.5	1374.0	1420.3	1433.1	1461.4	1481.9	1483.2
10°	1239.2	1237.9	1249.5	1281.6	1320.1	1374.0	1440.8	1457.5	1499.9	1535.8	1542.3
12.5°	1246.9	1245.6	1257.2	1286.7	1329.1	1397.2	1476.8	1499.9	1553.8	1609.0	1620.6
15°	1277.7	1276.4	1284.1	1308.5	1354.8	1425.4	1523.0	1557.7	1625.7	1692.5	1710.5
17.5°	1370.2	1363.8	1356.1	1358.6	1385.6	1458.8	1582.1	1624.4	1709.2	1788.8	1804.2
20°	1534.6	1517.9	1497.3	1470.3	1457.5	1507.6	1650.1	1698.9	1801.7	1892.8	1895.4
22.5°	1782.4	1776.0	1728.5	1650.1	1594.9	1596.2	1729.7	1786.3	1912.1	2012.3	1998.1
25°	2127.8	2124.0	2050.8	1922.4	1778.5	1729.7	1831.2	1889.0	2043.1	2149.7	2104.7
27.5°	2556.7	2529.8	2443.7	2270.4	2055.9	1903.1	1959.6	2011.0	2181.8	2281.9	2197.2
30°	2930.4	2931.7	2850.8	2669.7	2428.3	2163.8	2116.3	2161.2	2308.9	2414.2	2311.5
32.5°	3290.0	3301.5	3212.9	3049.9	2785.3	2504.1	2341.0	2348.7	2472.0	2586.3	2461.7
35°	3623.9	3632.9	3571.2	3432.5	3186.0	2859.8	2654.3	2650.5	2717.3	2834.1	2671.0
37.5°	3997.6	4006.5	3946.2	3821.6	3590.5	3266.9	3010.0	3004.9	3031.9	3126.9	2940.7
40°	4395.6	4412.3	4345.6	4240.3	4019.4	3745.9	3423.5	3377.3	3350.3	3462.1	3290.0
42.5°	4798.9	4824.5	4801.4	4696.1	4507.4	4281.4	3960.3	3888.4	3830.6	3970.6	3788.2
45°	5299.7	5330.5	5320.2	5239.3	5092.9	4909.3	4606.2	4522.8	4495.8	4625.5	4408.5
47.5°	5781.2	5814.6	5851.9	5833.9	5729.9	5645.1	5308.7	5261.2	5253.5	5392.1	5055.7
50°	6139.5	6170.3	6312.9	6415.6	6486.2	6468.3	6176.8	6106.1	6094.6	6183.2	5738.9
52.5°	6396.3	6425.9	6622.4	6943.4	7202.8	7344.0	7050.0	7034.6	6971.6	6940.8	6378.4
55°	6595.4	6636.5	6843.2	7328.6	7851.3	8164.6	7981.0	7925.8	7764.0	7586.7	6971.6
57.5°	6635.2	6651.9	6943.4	7598.3	8354.7	8861.9	8861.9	8765.6	8453.5	8208.3	7657.4
60°	6278.2	6329.6	6723.8	7576.5	8570.4	9317.8	9592.6	9525.8	9104.6	8802.8	8317.4
62.5°	5485.9	5543.7	6023.9	7053.8	8354.7	9411.5	10146.1	10135.8	9660.6	9294.7	8864.5
65°	4206.9	4249.2	4667.9	5900.7	7442.9	9050.7	10541.6	10569.8	10099.8	9619.6	9053.2
67.5°	2113.7	2143.2	2595.3	4030.9	5899.4	8011.8	10514.6	10640.5	10233.4	9447.5	8332.8
70°	738.4	767.9	981.1	1729.7	3590.5	6117.7	9605.4	9810.9	9448.8	8064.5	6147.2
72.5°	253.0	267.1	407.1	642.1	1397.2	3626.4	7304.2	7613.7	6965.2	5414.0	3532.7
75°	143.8	152.8	218.3	348.0	585.6	1193.0	4143.9	4334.0	4060.5	2951.0	1453.7
77.5°	97.6	105.3	136.1	197.8	323.6	384.0	1689.9	2127.8	1855.6	963.1	371.1
80°	57.8	62.9	83.5	116.9	165.7	149.0	362.1	481.6	620.2	287.6	111.7
82.5°	27.0	30.8	53.9	77.0	83.5	62.9	106.6	129.7	174.6	141.3	46.2
85°	0.0	0.0	18.0	32.1	30.8	18.0	29.5	32.1	47.5	70.6	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9	7.7	14.1	7.7
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°	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1438.2	1429.3	1439.5	1434.4	1439.5	1438.2	1428.0	1421.6	1421.6	1410.0	1406.1
5°	1456.2	1447.2	1449.8	1438.2	1435.7	1429.3	1416.4	1411.3	1411.3	1399.7	1395.9
7.5°	1496.0	1481.9	1479.3	1456.2	1446.0	1428.0	1404.9	1395.9	1394.6	1383.0	1379.2
10°	1559.0	1542.3	1530.7	1501.2	1471.6	1435.7	1386.9	1345.8	1322.7	1291.9	1289.3
12.5°	1636.0	1615.5	1597.5	1552.5	1503.7	1422.8	1279.0	1128.8	1036.3	963.1	968.2
15°	1722.0	1702.8	1674.5	1606.5	1506.3	1295.7	995.2	764.1	651.1	590.7	588.1
17.5°	1815.8	1787.5	1741.3	1648.8	1425.4	990.1	647.2	457.2	398.1	377.5	372.4
20°	1903.1	1868.4	1810.6	1657.8	1191.7	670.3	404.5	354.4	344.2	337.7	337.7
22.5°	1995.6	1951.9	1865.9	1588.5	886.1	428.9	344.2	332.6	324.9	315.9	314.6
25°	2089.3	2032.8	1915.9	1407.4	580.4	337.7	322.3	309.5	295.4	281.2	277.4
27.5°	2168.9	2095.7	1954.5	1137.8	372.4	304.3	294.1	272.2	253.0	237.6	235.0
30°	2264.0	2170.2	1971.2	832.1	292.8	268.4	253.0	229.9	206.7	191.3	186.2
32.5°	2391.1	2288.4	1945.5	541.9	259.4	236.3	211.9	184.9	161.8	145.1	142.5
35°	2588.8	2466.8	1827.3	345.4	235.0	204.2	174.6	146.4	127.1	114.3	111.7
37.5°	2830.3	2717.3	1633.4	259.4	210.6	177.2	142.5	115.6	101.4	92.5	89.9
40°	3188.5	3030.6	1393.3	227.3	186.2	150.2	116.9	95.0	84.8	77.0	74.5
42.5°	3653.4	3400.4	1117.2	206.7	163.1	125.8	95.0	78.3	69.3	64.2	62.9
45°	4196.6	3761.3	825.7	186.2	141.3	104.0	78.3	64.2	57.8	53.9	52.7
47.5°	4752.6	4077.2	570.2	164.4	120.7	86.0	65.5	55.2	50.1	44.9	43.7
50°	5345.9	4344.3	389.1	142.5	102.7	70.6	56.5	50.1	43.7	39.8	38.5
52.5°	5781.2	4443.2	271.0	123.3	87.3	60.4	50.1	44.9	39.8	34.7	33.4
55°	6183.2	4440.6	205.5	104.0	74.5	52.7	44.9	39.8	34.7	30.8	29.5
57.5°	6583.8	4405.9	161.8	88.6	64.2	47.5	39.8	34.7	32.1	27.0	25.7
60°	6843.2	4274.9	125.8	74.5	55.2	41.1	34.7	30.8	27.0	23.1	21.8
62.5°	6980.6	4092.6	96.3	59.1	44.9	36.0	30.8	27.0	23.1	19.3	18.0
65°	6794.4	3769.0	75.8	46.2	34.7	30.8	25.7	21.8	18.0	14.1	12.8
67.5°	5968.7	3178.3	59.1	37.2	27.0	23.1	21.8	18.0	12.8	10.3	9.0
70°	4218.4	2176.6	46.2	28.3	20.5	18.0	16.7	14.1	10.3	7.7	6.4
72.5°	2315.3	1097.9	33.4	20.5	15.4	14.1	12.8	11.6	9.0	6.4	6.4
75°	891.2	301.8	24.4	14.1	10.3	10.3	9.0	9.0	7.7	5.1	5.1
77.5°	232.4	89.9	15.4	9.0	6.4	6.4	6.4	5.1	5.1	3.9	3.9
80°	74.5	29.5	9.0	6.4	5.1	3.9	3.9	2.6	3.9	2.6	2.6
82.5°	24.4	10.3	5.1	5.1	3.9	2.6	2.6	1.3	1.3	0.0	0.0
85°	9.0	5.1	3.9	2.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	2.6	2.6	2.6	1.3	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)