

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: P629812

Luminaire Tested: GWS-SA1C-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2973.3 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

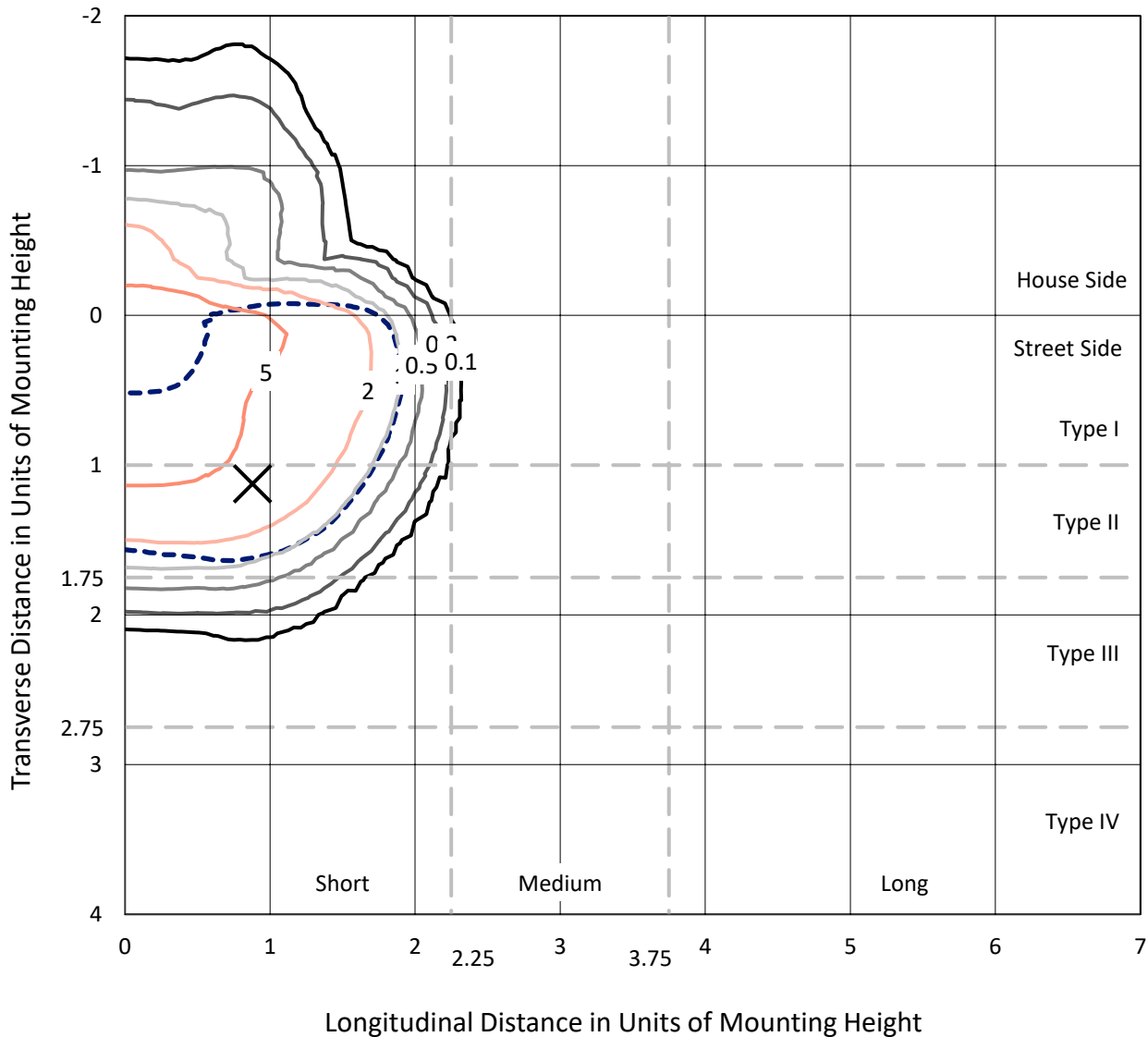
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

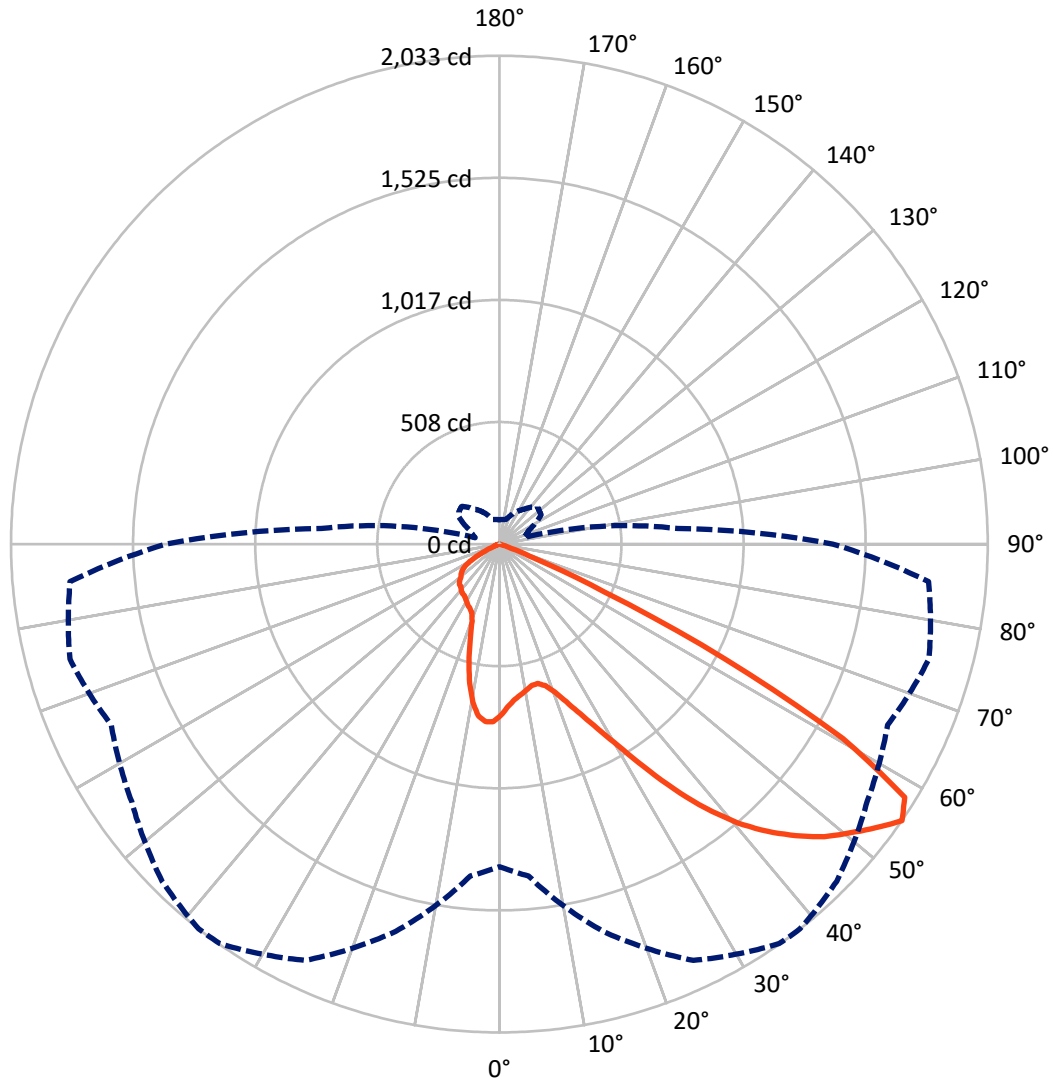
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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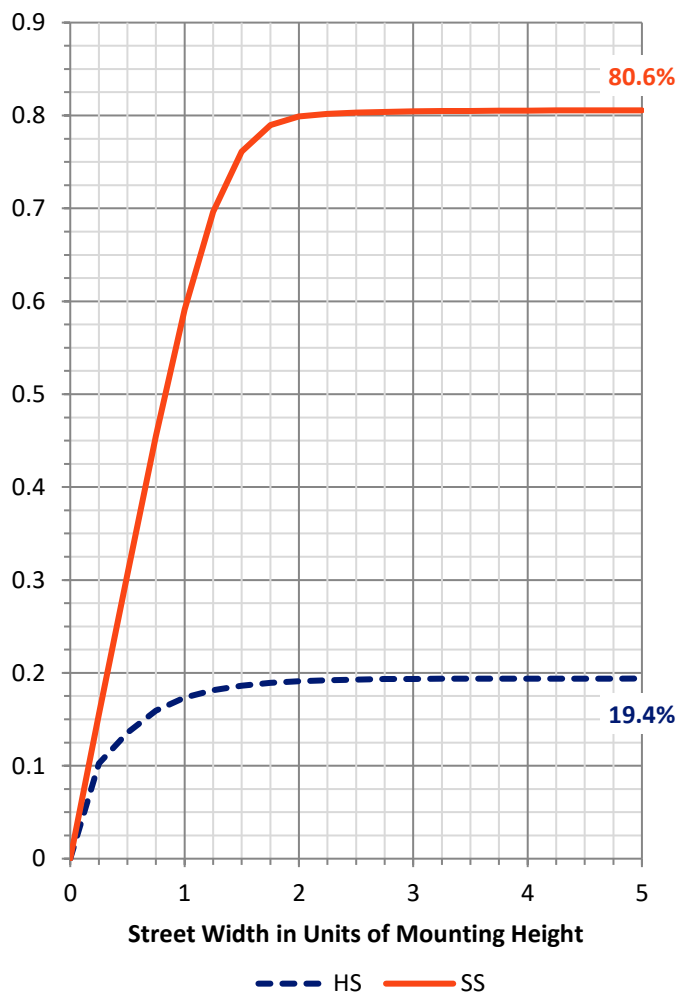
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.3	0.0	579.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2394.0	0.0	2394.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	2973.3	0.0	2973.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	2.2
10°-20°	177.5	6.0
20°-30°	304.6	10.2
30°-40°	505.2	17.0
40°-50°	742.6	25.0
50°-60°	867.8	29.2
60°-70°	294.1	9.9
70°-80°	15.0	0.5
80°-90°	0.6	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°	2973.3	100.0
0°-180°	2973.3	100.0

Coefficient of Utilization



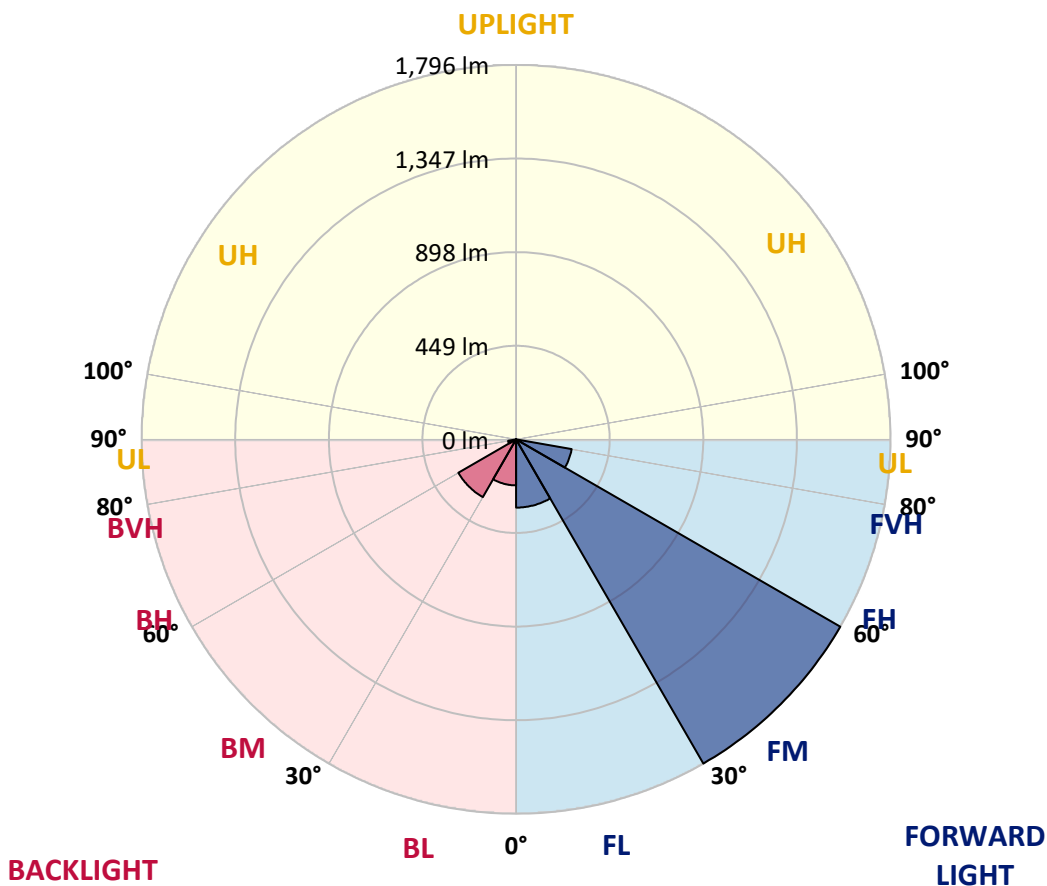
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.3	11.0			
FM (30°-60°)	1795.8	60.4			
FH (60°-80°)	270.6	9.1			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	220.7	7.4	B1/500		
BM (30°-60°)	319.7	10.8	B1/1000		
BH (60°-80°)	38.6	1.3	B0/110		G0/110
BVH (80°-90°)	0.3	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
2.5°	664.1	662.7	665.4	670.9	676.0	677.7	682.8	689.9	694.3	704.9	713.4
5°	634.2	633.5	636.2	641.0	647.8	650.1	658.0	669.9	681.8	700.1	718.1
7.5°	607.0	606.6	610.7	621.3	631.1	634.2	643.7	658.3	674.3	702.5	729.0
10°	571.3	571.6	579.5	594.4	612.4	618.5	633.8	654.9	675.6	712.0	748.7
12.5°	559.7	560.4	564.5	576.1	595.8	603.6	625.0	656.9	683.5	725.6	774.2
15°	588.0	588.0	584.6	585.9	594.7	601.9	624.3	663.7	696.7	741.9	799.3
17.5°	642.7	640.6	632.1	620.6	617.5	619.9	637.9	678.4	715.4	760.9	827.9
20°	716.8	717.4	700.8	676.7	657.3	656.9	667.8	704.2	742.2	783.7	858.8
22.5°	806.5	803.8	781.7	748.7	715.1	712.3	716.8	743.6	781.0	819.7	896.9
25°	910.5	909.1	877.9	833.7	789.1	782.7	782.7	809.2	836.4	871.1	942.4
27.5°	1019.2	1019.2	989.0	938.0	878.9	867.3	865.6	896.9	914.9	921.7	980.8
30°	1131.0	1129.7	1099.8	1047.4	984.2	972.3	967.6	990.7	1003.6	983.2	1028.7
32.5°	1244.6	1246.9	1216.7	1168.1	1111.7	1103.9	1089.2	1089.2	1099.8	1071.2	1104.2
35°	1366.6	1365.9	1342.1	1309.1	1260.9	1252.0	1227.9	1190.2	1206.2	1193.6	1208.5
37.5°	1474.3	1479.4	1467.8	1443.4	1404.3	1395.5	1355.7	1287.4	1299.6	1319.3	1332.6
40°	1583.7	1587.8	1599.4	1591.6	1542.3	1526.0	1455.3	1343.1	1356.7	1424.3	1462.4
42.5°	1691.1	1693.2	1716.6	1729.5	1663.6	1635.1	1530.7	1377.1	1391.4	1506.6	1573.2
45°	1759.4	1763.9	1802.6	1842.0	1770.7	1731.6	1596.3	1420.6	1426.7	1563.7	1655.1
47.5°	1756.7	1766.9	1839.6	1911.4	1862.8	1820.6	1675.2	1490.3	1480.1	1617.4	1709.1
50°	1702.0	1714.2	1818.6	1932.4	1929.0	1889.9	1762.8	1591.2	1559.3	1665.0	1715.9
52.5°	1588.5	1623.8	1781.5	1935.1	1982.4	1962.7	1871.3	1727.2	1666.3	1733.3	1726.8
55°	1343.1	1386.6	1669.0	1912.0	2030.6	2033.0	1985.1	1868.9	1782.6	1850.9	1793.8
57.5°	1019.6	1054.2	1284.7	1702.0	1950.8	1989.9	2029.3	1943.6	1854.3	1931.1	1809.4
60°	614.5	654.6	804.4	1249.0	1575.6	1642.2	1796.8	1780.2	1672.4	1705.4	1483.8
62.5°	249.1	270.2	371.5	688.2	991.7	1053.9	1202.1	1227.2	1200.7	1167.1	899.9
65°	91.1	99.6	148.9	284.5	456.1	478.9	557.0	601.5	638.3	543.4	334.8
67.5°	56.4	61.9	96.9	146.1	165.9	154.3	157.0	187.3	178.8	110.5	59.8
70°	41.8	46.2	75.8	101.3	67.0	51.7	35.0	37.4	33.6	29.6	29.2
72.5°	28.9	33.0	56.8	59.8	25.8	18.4	12.9	18.0	20.4	20.1	20.7
75°	19.0	22.1	35.7	23.5	6.5	5.1	4.4	9.5	12.2	12.2	12.6
77.5°	11.2	12.9	12.6	4.8	1.4	1.4	1.0	1.7	2.7	3.1	3.7
80°	1.4	1.0	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
82.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0
85°	0.0	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0
87.5°	0.0	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0
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°	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0	713.0
2.5°	719.8	717.4	727.3	734.4	740.2	742.9	739.2	738.8	738.8	731.4	729.3
5°	728.3	729.3	743.3	749.4	750.4	747.0	738.5	732.7	729.3	721.5	717.1
7.5°	744.6	748.0	761.3	760.3	751.1	735.5	713.0	695.7	684.5	672.2	664.8
10°	768.1	774.5	782.7	768.4	739.2	699.4	653.2	620.2	600.5	586.6	578.1
12.5°	796.6	803.1	800.4	766.7	705.9	634.9	575.4	527.8	505.0	492.5	483.6
15°	825.5	829.6	811.9	746.3	647.1	551.6	485.3	438.1	410.2	400.0	392.5
17.5°	855.1	854.1	814.0	706.2	568.6	457.8	392.5	360.2	352.4	350.7	350.1
20°	886.0	876.8	805.8	648.8	474.1	365.0	328.0	330.0	344.3	351.1	352.4
22.5°	921.4	898.2	785.4	571.0	377.6	304.2	307.9	328.0	347.3	356.5	357.9
25°	959.1	918.0	751.4	471.0	297.7	279.7	301.8	324.9	345.6	356.8	358.2
27.5°	983.9	922.7	695.7	370.4	255.6	270.2	293.6	315.7	337.1	349.4	351.1
30°	1010.7	920.7	619.9	285.5	241.3	262.0	282.4	302.5	322.2	335.8	337.1
32.5°	1050.2	919.3	527.5	231.8	235.5	255.6	270.5	287.2	300.8	308.6	307.6
35°	1101.8	917.6	419.7	209.0	232.1	250.5	262.4	270.2	255.2	250.5	251.5
37.5°	1168.1	921.7	329.0	199.5	231.1	249.1	259.3	236.9	213.8	204.9	203.6
40°	1241.5	932.2	250.8	195.8	234.5	252.5	247.8	210.7	182.2	164.8	161.1
42.5°	1315.2	943.8	198.5	194.4	240.3	262.0	228.7	191.7	148.9	139.0	137.6
45°	1370.0	941.7	171.6	192.0	245.4	267.5	223.6	164.5	132.9	128.5	128.8
47.5°	1397.5	919.3	157.0	186.6	247.4	262.0	211.1	153.3	122.0	126.8	130.8
50°	1382.9	861.2	143.4	176.0	243.0	254.9	191.0	144.8	116.6	136.3	145.5
52.5°	1365.2	789.8	128.5	159.7	232.5	245.0	183.2	142.4	113.2	131.5	138.3
55°	1388.7	744.6	104.0	134.6	211.7	221.9	177.1	142.1	105.4	102.3	101.3
57.5°	1355.7	654.6	74.4	96.9	162.5	175.7	172.6	139.7	93.5	93.1	94.5
60°	1047.8	399.3	51.0	61.5	99.6	112.2	156.7	133.6	80.5	74.1	74.4
62.5°	595.4	169.9	35.0	38.1	51.0	60.5	119.6	121.3	74.4	70.7	74.4
65°	207.3	60.8	27.2	25.5	28.2	32.3	68.7	93.8	67.6	61.2	61.9
67.5°	42.8	30.2	24.1	21.1	21.1	21.1	35.0	58.5	55.7	48.6	49.3
70°	27.2	25.8	21.1	18.0	17.3	16.0	20.1	32.3	38.4	35.3	35.7
72.5°	20.1	19.7	16.7	14.6	12.9	11.6	12.6	16.0	19.7	20.4	20.7
75°	12.2	12.6	10.9	9.2	8.2	7.1	7.5	7.5	7.5	6.8	7.5
77.5°	3.7	4.1	3.4	2.7	2.4	2.4	2.4	2.0	1.7	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.0	0.0	0.0
85°	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.3	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)