

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: P632725

Luminaire Tested: GWS-SA2D-730-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632725
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-SA2D-730-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6668.6 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

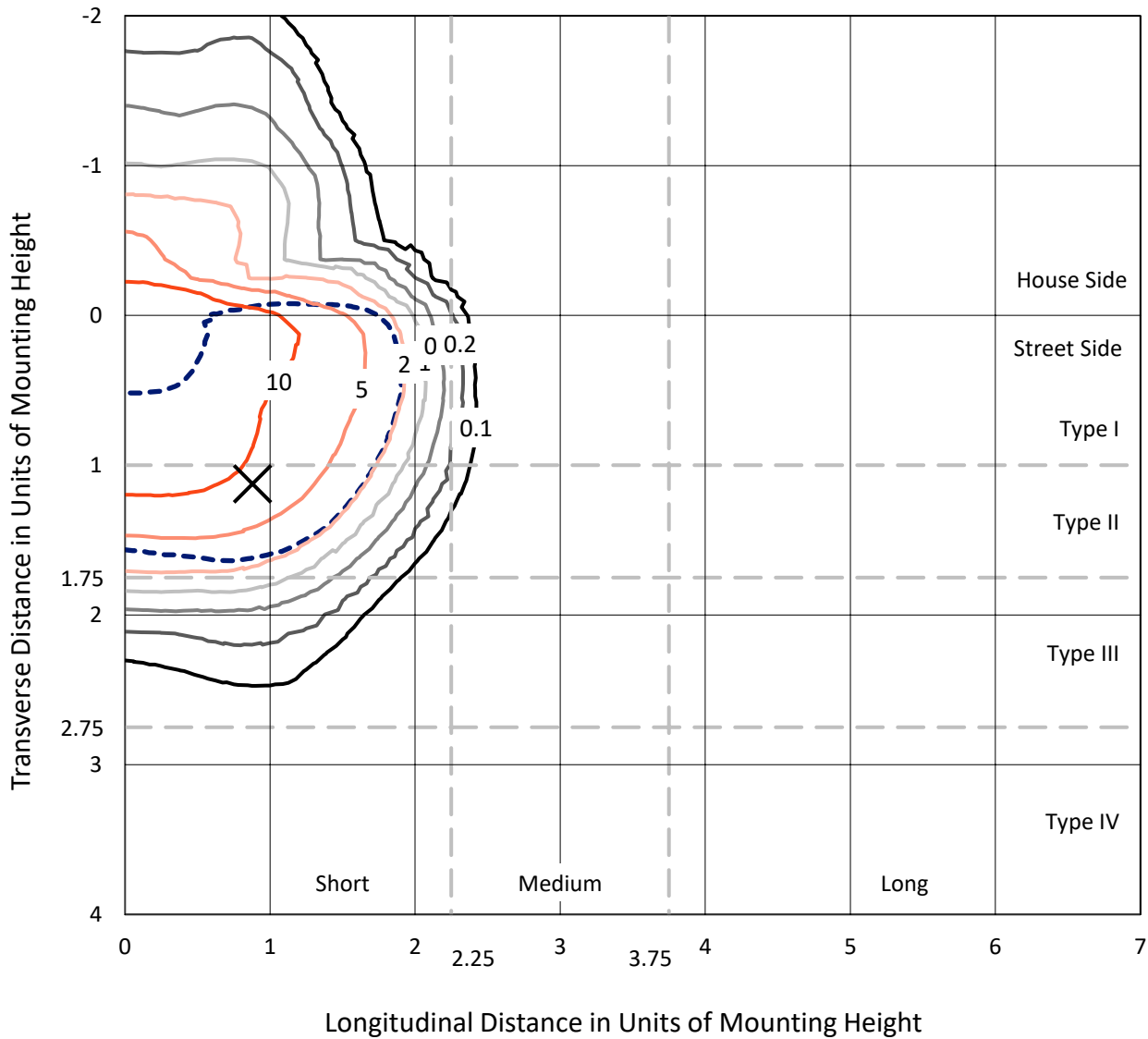
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

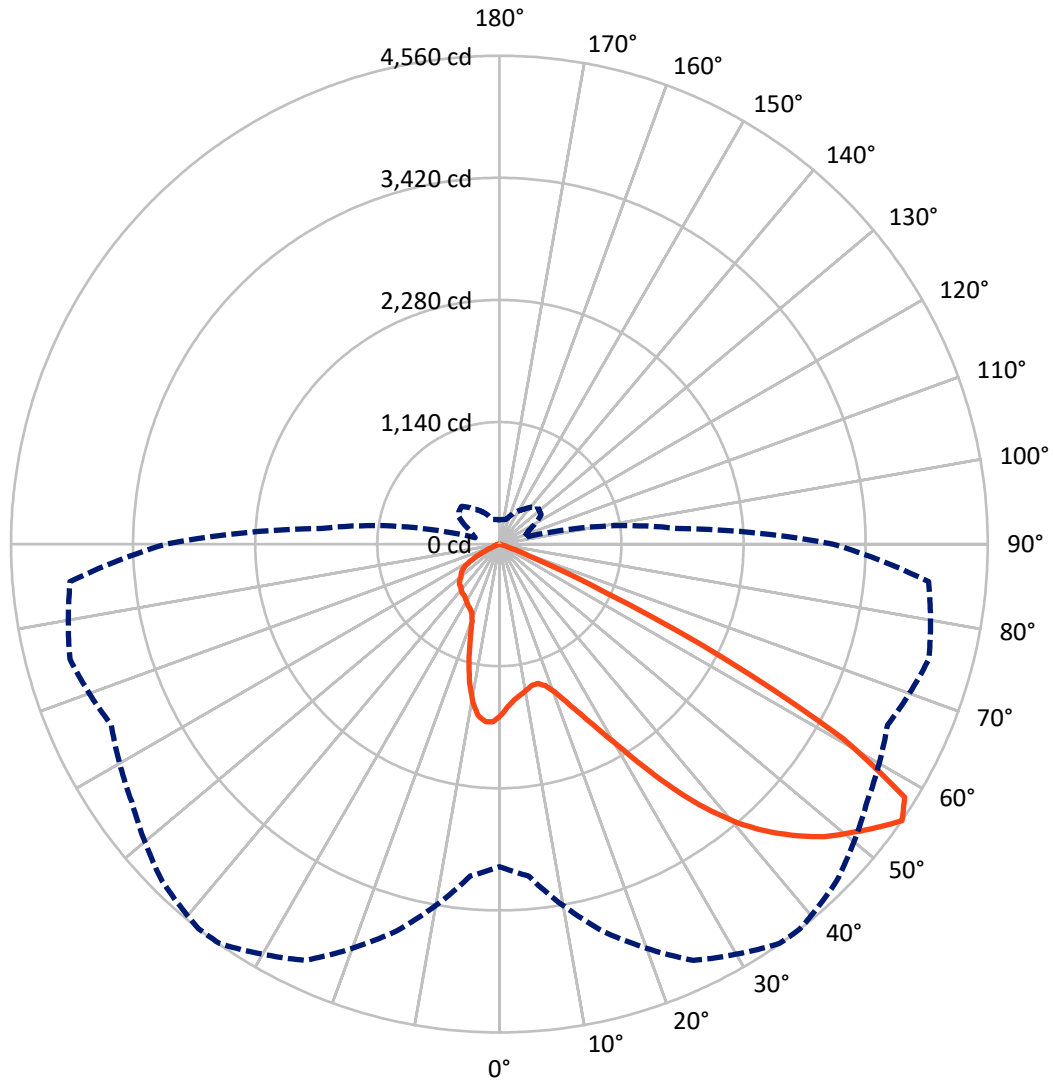
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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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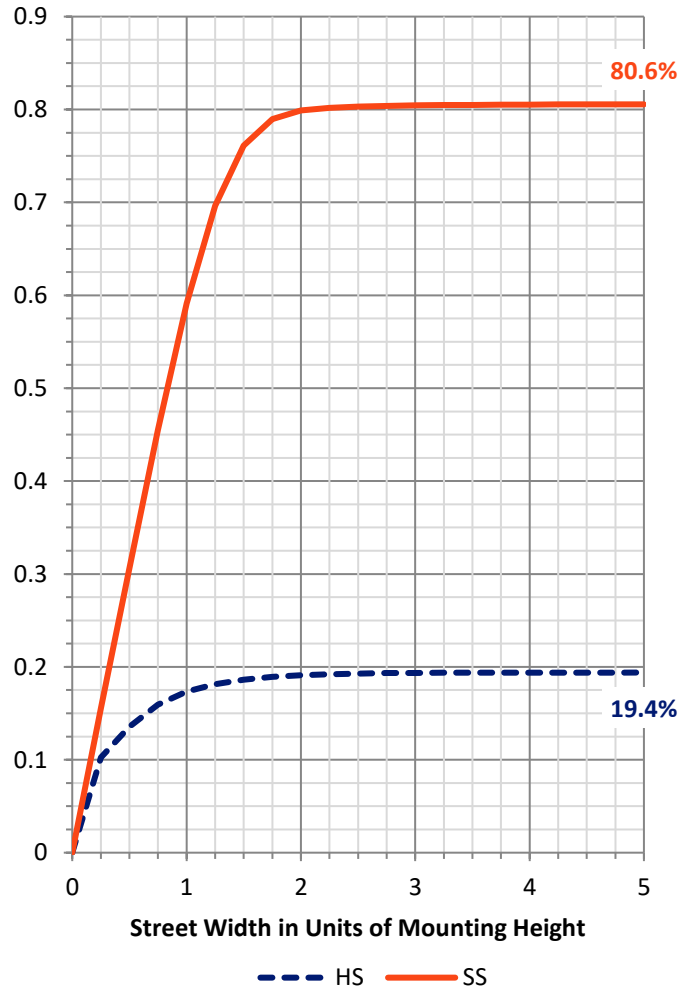
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.2	0.0	1299.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5369.3	0.0	5369.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	6668.6	0.0	6668.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	2.2
10°-20°	398.1	6.0
20°-30°	683.1	10.2
30°-40°	1133.0	17.0
40°-50°	1665.5	25.0
50°-60°	1946.2	29.2
60°-70°	659.7	9.9
70°-80°	33.7	0.5
80°-90°	1.3	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°	6668.6	100.0
0°-180°	6668.6	100.0

Coefficient of Utilization



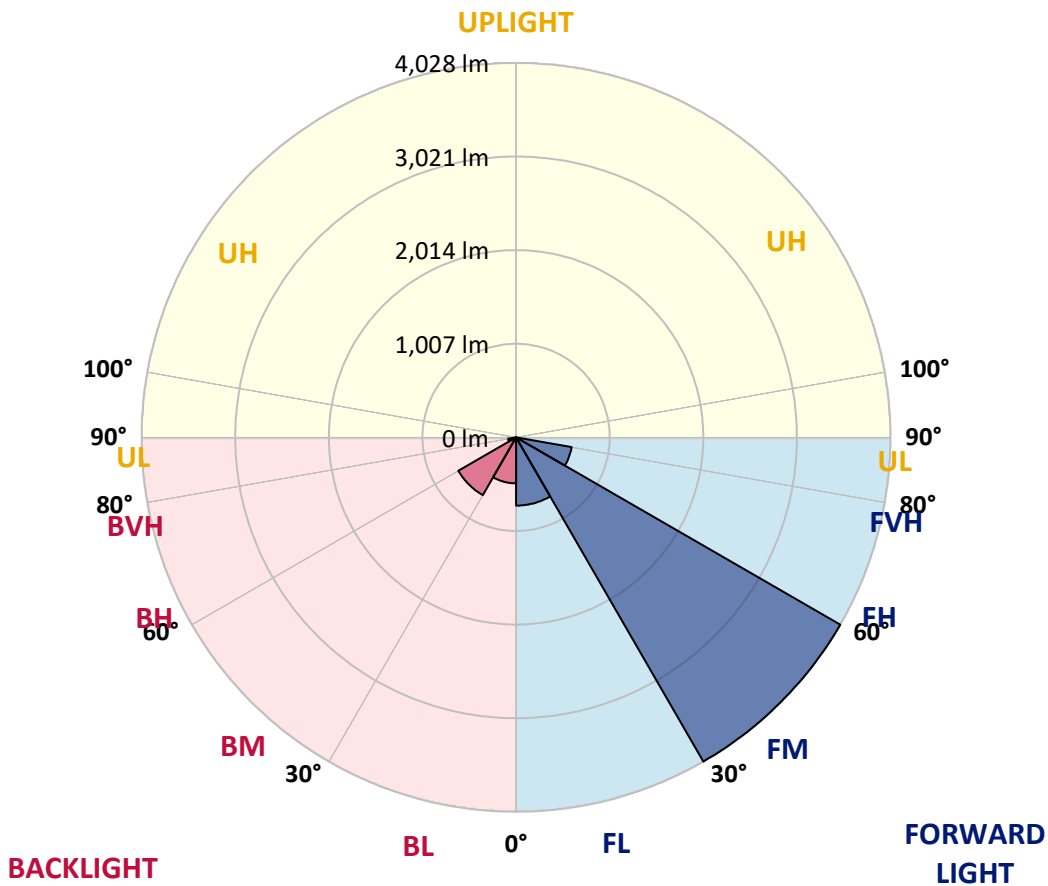
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.1	11.0			
FM (30°-60°)	4027.6	60.4			
FH (60°-80°)	606.9	9.1			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	495.0	7.4	B1/500		
BM (30°-60°)	717.1	10.8	B1/1000		
BH (60°-80°)	86.5	1.3	B0/110		G0/110
BVH (80°-90°)	0.6	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2
2.5°	1489.4	1486.4	1492.5	1504.7	1516.1	1519.9	1531.3	1547.3	1557.3	1580.9	1599.9
5°	1422.3	1420.8	1426.9	1437.6	1452.8	1458.2	1475.7	1502.4	1529.1	1570.2	1610.6
7.5°	1361.4	1360.6	1369.7	1393.4	1415.5	1422.3	1443.7	1476.5	1512.3	1575.6	1635.0
10°	1281.3	1282.1	1299.6	1333.2	1373.6	1387.3	1421.6	1468.8	1515.3	1596.9	1679.2
12.5°	1255.4	1256.9	1266.1	1292.0	1336.2	1353.7	1401.8	1473.4	1532.9	1627.4	1736.4
15°	1318.7	1318.7	1311.1	1314.1	1333.9	1349.9	1400.2	1488.7	1562.6	1664.0	1792.8
17.5°	1441.4	1436.8	1417.8	1391.9	1385.0	1390.3	1430.7	1521.4	1604.5	1706.7	1856.8
20°	1607.6	1609.1	1571.7	1517.6	1474.2	1473.4	1497.8	1579.4	1664.7	1757.7	1926.2
22.5°	1808.8	1802.7	1753.2	1679.2	1603.8	1597.7	1607.6	1667.8	1751.6	1838.5	2011.6
25°	2042.0	2039.0	1968.9	1869.8	1769.9	1755.4	1755.4	1814.9	1875.9	1953.6	2113.7
27.5°	2286.0	2286.0	2218.1	2103.8	1971.2	1945.2	1941.4	2011.6	2052.0	2067.2	2199.8
30°	2536.7	2533.7	2466.6	2349.2	2207.4	2180.8	2170.1	2221.9	2250.9	2205.2	2307.3
32.5°	2791.3	2796.7	2728.8	2619.8	2493.3	2475.8	2443.0	2443.0	2466.6	2402.6	2476.5
35°	3065.0	3063.4	3010.1	2936.2	2827.9	2808.1	2754.0	2669.4	2705.2	2677.0	2710.5
37.5°	3306.6	3318.0	3292.1	3237.2	3149.6	3129.8	3040.6	2887.4	2914.8	2959.0	2988.7
40°	3552.0	3561.2	3587.1	3569.6	3459.0	3422.5	3263.9	3012.4	3042.9	3194.6	3279.9
42.5°	3792.9	3797.5	3850.1	3879.0	3731.2	3667.1	3433.1	3088.6	3120.6	3379.0	3528.4
45°	3946.1	3956.0	4042.9	4131.3	3971.3	3883.6	3580.2	3186.2	3199.9	3507.1	3712.1
47.5°	3940.0	3962.9	4126.0	4286.8	4177.8	4083.3	3757.1	3342.4	3319.6	3627.5	3833.3
50°	3817.3	3844.7	4078.8	4334.1	4326.5	4238.8	3953.7	3568.8	3497.2	3734.2	3848.6
52.5°	3562.7	3642.0	3995.7	4340.2	4446.2	4401.9	4196.9	3873.7	3737.3	3887.4	3872.9
55°	3012.4	3109.9	3743.4	4288.4	4554.4	4559.7	4452.2	4191.6	3998.0	4151.2	4023.1
57.5°	2286.7	2364.5	2881.3	3817.3	4375.3	4462.9	4551.3	4359.3	4158.8	4331.1	4058.2
60°	1378.1	1468.1	1804.2	2801.2	3533.7	3683.1	4030.0	3992.6	3751.0	3824.9	3327.9
62.5°	558.7	606.0	833.1	1543.5	2224.2	2363.7	2696.0	2752.5	2693.0	2617.5	2018.4
65°	204.3	223.3	333.9	638.0	1022.9	1074.0	1249.3	1349.2	1431.5	1218.8	750.8
67.5°	126.5	138.7	217.2	327.8	372.0	346.1	352.2	420.0	400.9	247.7	134.2
70°	93.8	103.7	170.0	227.1	150.2	115.9	78.5	83.8	75.5	66.3	65.6
72.5°	64.8	73.9	127.3	134.2	57.9	41.2	29.0	40.4	45.7	45.0	46.5
75°	42.7	49.5	80.0	52.6	14.5	11.4	9.9	21.3	27.4	27.4	28.2
77.5°	25.2	29.0	28.2	10.7	3.0	3.0	2.3	3.8	6.1	6.9	8.4
80°	3.0	2.3	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3
82.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3
85°	0.0	0.0	0.8	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3
87.5°	0.0	0.0	0.8	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3
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°	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2	1599.2
2.5°	1614.4	1609.1	1631.2	1647.2	1660.2	1666.3	1657.9	1657.1	1657.1	1640.3	1635.8
5°	1633.5	1635.8	1667.0	1680.7	1683.0	1675.4	1656.3	1643.4	1635.8	1618.2	1608.3
7.5°	1670.1	1677.7	1707.4	1705.1	1684.6	1649.5	1599.2	1560.3	1535.2	1507.7	1490.9
10°	1722.7	1737.1	1755.4	1723.4	1657.9	1568.7	1465.0	1391.1	1346.9	1315.6	1296.6
12.5°	1786.7	1801.2	1795.1	1719.6	1583.2	1423.9	1290.5	1183.8	1132.7	1104.5	1084.7
15°	1851.5	1860.6	1821.0	1673.9	1451.3	1237.1	1088.5	982.5	920.0	897.2	880.4
17.5°	1917.8	1915.5	1825.6	1583.9	1275.2	1026.7	880.4	808.0	790.4	786.6	785.1
20°	1987.2	1966.6	1807.3	1455.1	1063.3	818.6	735.6	740.1	772.2	787.4	790.4
22.5°	2066.4	2014.6	1761.5	1280.6	846.8	682.2	690.6	735.6	779.0	799.6	802.6
25°	2151.0	2058.8	1685.3	1056.5	667.7	627.3	676.9	728.7	775.2	800.4	803.4
27.5°	2206.7	2069.5	1560.3	830.8	573.2	606.0	658.6	708.1	756.1	783.6	787.4
30°	2266.9	2064.9	1390.3	640.3	541.2	587.7	633.4	678.4	722.6	753.1	756.1
32.5°	2355.3	2061.9	1183.0	519.8	528.2	573.2	606.7	644.1	674.6	692.1	689.8
35°	2471.2	2058.1	941.4	468.8	520.6	561.8	588.4	606.0	572.4	561.8	564.1
37.5°	2619.8	2067.2	737.8	447.4	518.3	558.7	581.6	531.3	479.4	459.6	456.6
40°	2784.5	2090.8	562.5	439.1	525.9	566.3	555.7	472.6	408.6	369.7	361.3
42.5°	2949.9	2116.7	445.1	436.0	538.9	587.7	513.0	429.9	333.9	311.8	308.7
45°	3072.6	2112.2	384.9	430.7	550.3	599.9	501.6	368.9	298.0	288.1	288.9
47.5°	3134.3	2061.9	352.2	418.5	554.9	587.7	473.4	343.8	273.6	284.3	293.5
50°	3101.6	1931.5	321.7	394.8	545.0	571.7	428.4	324.7	261.4	305.7	326.2
52.5°	3061.9	1771.4	288.1	358.3	521.4	549.6	410.8	319.4	253.8	295.0	310.2
55°	3114.5	1670.1	233.2	301.8	474.9	497.7	397.1	318.6	236.3	229.4	227.1
57.5°	3040.6	1468.1	166.9	217.2	364.4	394.1	387.2	313.3	209.6	208.9	211.9
60°	2350.0	895.6	114.3	138.0	223.3	251.5	351.4	299.6	180.7	166.2	166.9
62.5°	1335.4	381.1	78.5	85.4	114.3	135.7	268.3	272.1	166.9	158.5	166.9
65°	465.0	136.4	61.0	57.2	63.3	72.4	154.0	210.4	151.7	137.2	138.7
67.5°	96.0	67.8	54.1	47.3	47.3	47.3	78.5	131.1	125.0	109.0	110.5
70°	61.0	57.9	47.3	40.4	38.9	35.8	45.0	72.4	86.1	79.3	80.0
72.5°	45.0	44.2	37.3	32.8	29.0	25.9	28.2	35.8	44.2	45.7	46.5
75°	27.4	28.2	24.4	20.6	18.3	16.0	16.8	16.8	16.8	15.2	16.8
77.5°	8.4	9.1	7.6	6.1	5.3	5.3	5.3	4.6	3.8	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.0	0.0
82.5°	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.0	0.0	0.0
85°	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.0	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	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)