

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: P634320

Luminaire Tested: GWS-SA3B-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634320  
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-SA3B-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

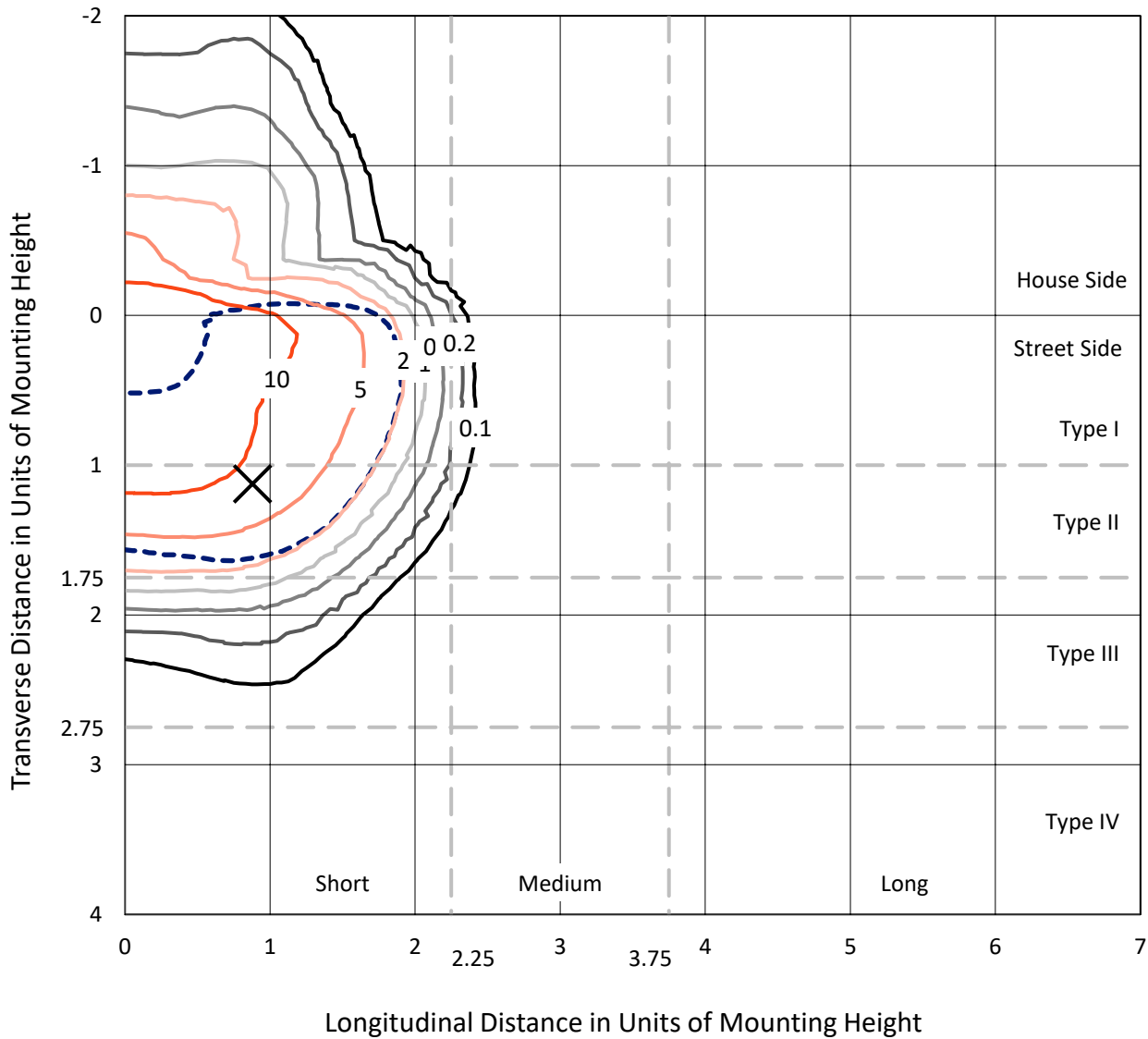
Lumens per Lamp: N/A  
Luminaire Lumens: 6523.7 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

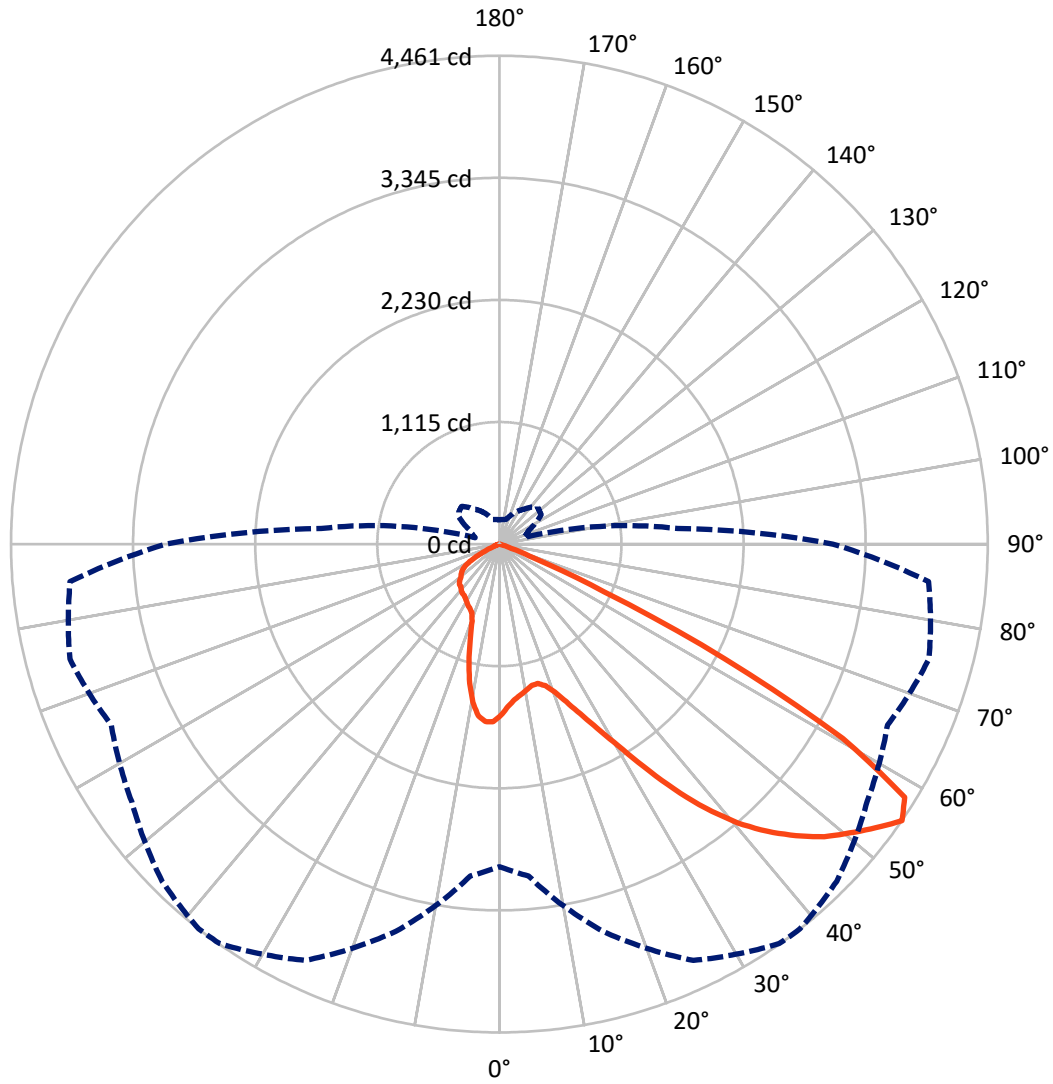
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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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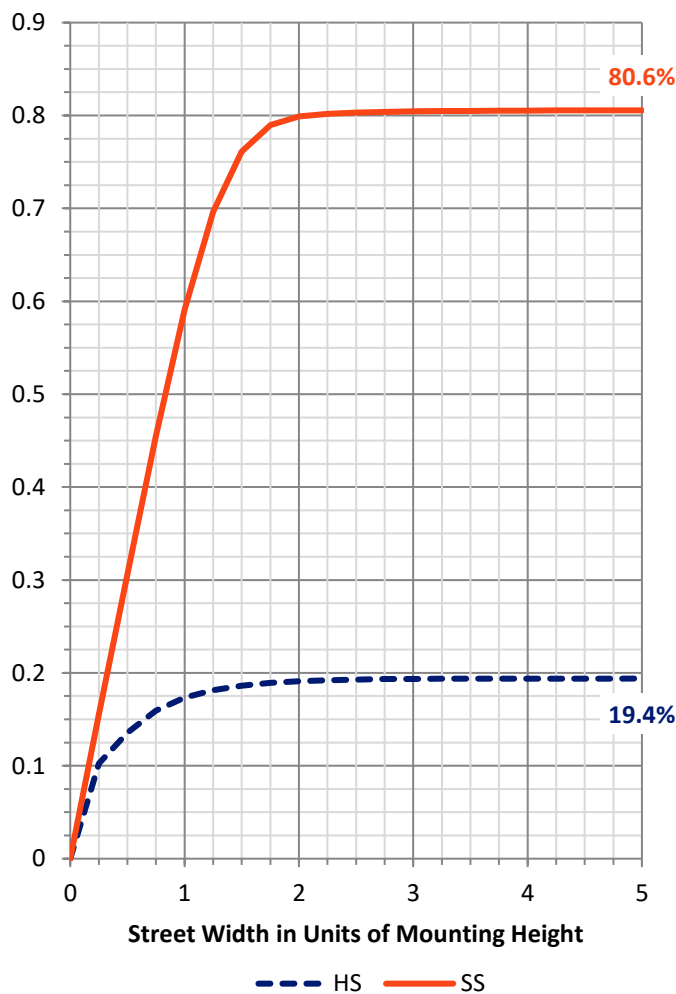
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1271.0	0.0	1271.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5252.7	0.0	5252.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6523.7	0.0	6523.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	2.2
10°-20°	389.4	6.0
20°-30°	668.3	10.2
30°-40°	1108.4	17.0
40°-50°	1629.4	25.0
50°-60°	1904.0	29.2
60°-70°	645.4	9.9
70°-80°	33.0	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°	6523.7	100.0
0°-180°	6523.7	100.0

**Coefficient of Utilization**



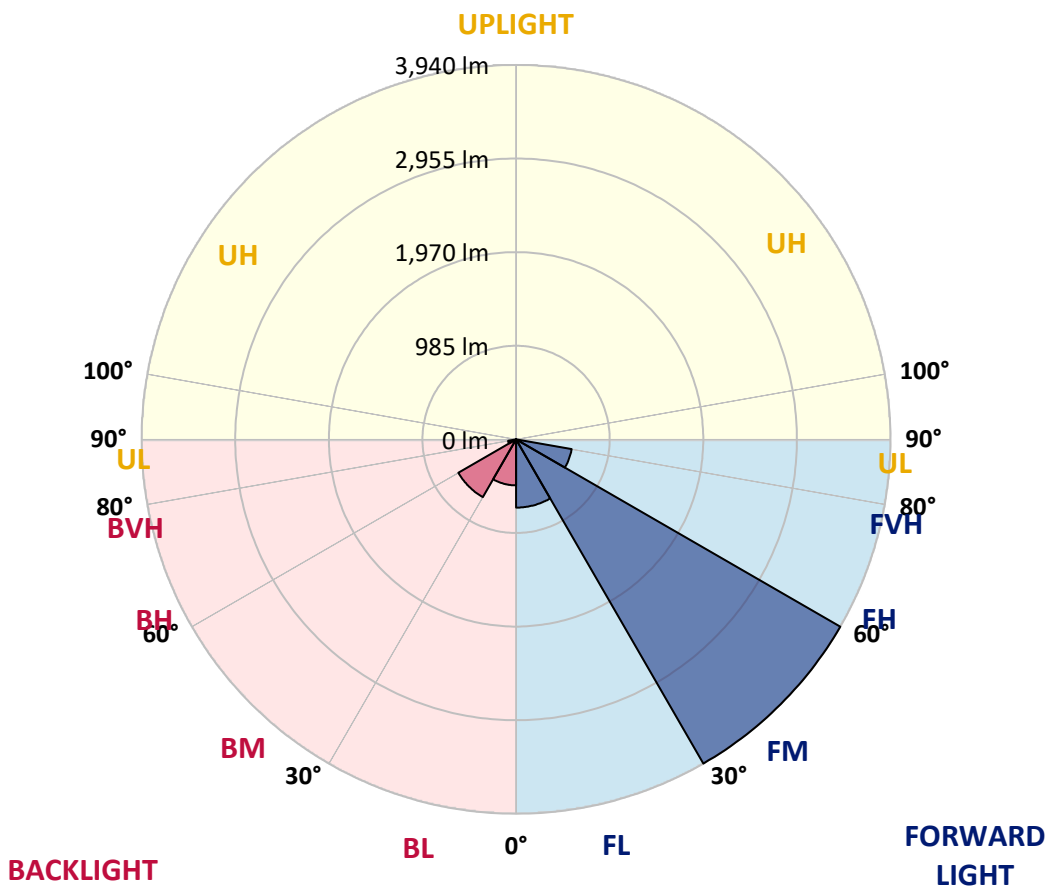
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.1	11.0			
FM (30°-60°)	3940.1	60.4			
FH (60°-80°)	593.8	9.1			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	484.2	7.4	B1/500		
BM (30°-60°)	701.6	10.8	B1/1000		
BH (60°-80°)	84.6	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°	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4
2.5°	1457.1	1454.1	1460.0	1472.0	1483.2	1486.9	1498.1	1513.7	1523.4	1546.5	1565.2
5°	1391.4	1389.9	1395.9	1406.3	1421.3	1426.5	1443.6	1469.7	1495.8	1536.1	1575.6
7.5°	1331.8	1331.0	1340.0	1363.1	1384.7	1391.4	1412.3	1444.4	1479.4	1541.3	1599.5
10°	1253.5	1254.2	1271.4	1304.2	1343.7	1357.1	1390.7	1436.9	1482.4	1562.2	1642.7
12.5°	1228.1	1229.6	1238.6	1263.9	1307.2	1324.3	1371.3	1441.4	1499.6	1592.0	1698.7
15°	1290.0	1290.0	1282.6	1285.5	1304.9	1320.6	1369.8	1456.3	1528.6	1627.8	1753.8
17.5°	1410.1	1405.6	1387.0	1361.6	1354.9	1360.1	1399.6	1488.4	1569.7	1669.6	1816.5
20°	1572.6	1574.1	1537.6	1484.6	1442.1	1441.4	1465.3	1545.0	1628.6	1719.5	1884.3
22.5°	1769.5	1763.5	1715.1	1642.7	1568.9	1562.9	1572.6	1631.5	1713.6	1798.6	1967.8
25°	1997.7	1994.7	1926.1	1829.1	1731.5	1717.3	1717.3	1775.5	1835.1	1911.2	2067.8
27.5°	2236.3	2236.3	2169.9	2058.1	1928.3	1903.0	1899.2	1967.8	2007.4	2022.3	2152.0
30°	2481.6	2478.6	2413.0	2298.2	2159.5	2133.4	2122.9	2173.7	2202.0	2157.2	2257.2
32.5°	2730.7	2735.9	2669.5	2562.9	2439.1	2422.0	2389.9	2389.9	2413.0	2350.4	2422.7
35°	2998.4	2996.9	2944.7	2872.4	2766.5	2747.1	2694.1	2611.4	2646.4	2618.8	2651.6
37.5°	3234.8	3245.9	3220.6	3166.9	3081.1	3061.8	2974.5	2824.6	2851.5	2894.7	2923.8
40°	3474.9	3483.8	3509.2	3492.0	3383.9	3348.1	3193.0	2946.9	2976.7	3125.1	3208.7
42.5°	3710.5	3715.0	3766.4	3794.8	3650.1	3587.5	3358.5	3021.5	3052.8	3305.6	3451.7
45°	3860.4	3870.1	3955.1	4041.6	3885.0	3799.2	3502.5	3116.9	3130.4	3430.9	3631.5
47.5°	3854.4	3876.8	4036.4	4193.7	4087.1	3994.6	3675.4	3269.8	3247.4	3548.7	3750.0
50°	3734.4	3761.2	3990.1	4239.9	4232.5	4146.7	3867.8	3491.3	3421.2	3653.1	3764.9
52.5°	3485.3	3562.9	3908.8	4245.9	4349.5	4306.3	4105.7	3789.5	3656.1	3803.0	3788.8
55°	2946.9	3042.4	3662.0	4195.2	4455.4	4460.6	4355.5	4100.5	3911.1	4061.0	3935.7
57.5°	2237.0	2313.1	2818.7	3734.4	4280.2	4365.9	4452.4	4264.5	4068.4	4236.9	3970.0
60°	1348.2	1436.2	1765.0	2740.4	3457.0	3603.1	3942.4	3905.9	3669.5	3741.8	3255.6
62.5°	546.6	592.8	815.0	1510.0	2175.9	2312.3	2637.5	2692.6	2634.5	2560.7	1974.6
65°	199.8	218.5	326.6	624.1	1000.7	1050.7	1222.2	1319.9	1400.4	1192.3	734.5
67.5°	123.8	135.7	212.5	320.6	363.9	338.5	344.5	410.9	392.2	242.3	131.2
70°	91.7	101.4	166.3	222.2	146.9	113.3	76.8	82.0	73.8	64.9	64.1
72.5°	63.4	72.3	124.5	131.2	56.7	40.3	28.3	39.5	44.7	44.0	45.5
75°	41.8	48.5	78.3	51.5	14.2	11.2	9.7	20.9	26.8	26.8	27.6
77.5°	24.6	28.3	27.6	10.4	3.0	3.0	2.2	3.7	6.0	6.7	8.2
80°	3.0	2.2	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2
82.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2
85°	0.0	0.0	0.7	0.7	1.5	1.5	1.5	1.5	1.5	2.2	2.2
87.5°	0.0	0.0	0.7	0.7	1.5	1.5	1.5	1.5	1.5	2.2	2.2
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°	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4	1564.4
2.5°	1579.3	1574.1	1595.8	1611.4	1624.1	1630.1	1621.9	1621.1	1621.1	1604.7	1600.2
5°	1598.0	1600.2	1630.8	1644.2	1646.5	1639.0	1620.4	1607.7	1600.2	1583.1	1573.4
7.5°	1633.8	1641.2	1670.3	1668.1	1647.9	1613.6	1564.4	1526.4	1501.8	1475.0	1458.5
10°	1685.2	1699.4	1717.3	1686.0	1621.9	1534.6	1433.2	1360.9	1317.6	1287.0	1268.4
12.5°	1747.9	1762.0	1756.1	1682.3	1548.8	1392.9	1262.4	1158.0	1108.1	1080.5	1061.1
15°	1811.3	1820.2	1781.4	1637.5	1419.8	1210.2	1064.8	961.2	900.0	877.7	861.3
17.5°	1876.1	1873.9	1785.9	1549.5	1247.5	1004.4	861.3	790.4	773.3	769.5	768.0
20°	1944.0	1923.9	1768.0	1423.5	1040.2	800.9	719.6	724.1	755.4	770.3	773.3
22.5°	2021.5	1970.8	1723.3	1252.7	828.4	667.4	675.6	719.6	762.1	782.2	785.2
25°	2104.3	2014.1	1648.7	1033.5	653.2	613.7	662.2	712.9	758.4	783.0	785.9
27.5°	2158.7	2024.5	1526.4	812.8	560.8	592.8	644.3	692.7	739.7	766.6	770.3
30°	2217.6	2020.0	1360.1	626.4	529.4	574.9	619.7	663.7	706.9	736.7	739.7
32.5°	2304.1	2017.1	1157.3	508.6	516.8	560.8	593.6	630.1	659.9	677.1	674.8
35°	2417.5	2013.3	920.9	458.6	509.3	549.6	575.7	592.8	560.0	549.6	551.8
37.5°	2562.9	2022.3	721.8	437.7	507.1	546.6	569.0	519.7	469.0	449.6	446.7
40°	2724.0	2045.4	550.3	429.5	514.5	554.0	543.6	462.3	399.7	361.7	353.5
42.5°	2885.8	2070.7	435.5	426.5	527.2	574.9	501.8	420.6	326.6	305.0	302.0
45°	3005.8	2066.3	376.6	421.3	538.4	586.8	490.7	360.9	291.6	281.9	282.6
47.5°	3066.2	2017.1	344.5	409.4	542.9	574.9	463.1	336.3	267.7	278.1	287.1
50°	3034.2	1889.5	314.7	386.3	533.2	559.3	419.1	317.7	255.8	299.0	319.2
52.5°	2995.4	1733.0	281.9	350.5	510.0	537.6	401.9	312.4	248.3	288.6	303.5
55°	3046.8	1633.8	228.2	295.3	464.6	486.9	388.5	311.7	231.2	224.4	222.2
57.5°	2974.5	1436.2	163.3	212.5	356.4	385.5	378.8	306.5	205.1	204.3	207.3
60°	2298.9	876.2	111.9	135.0	218.5	246.1	343.8	293.1	176.7	162.6	163.3
62.5°	1306.4	372.8	76.8	83.5	111.9	132.7	262.5	266.2	163.3	155.1	163.3
65°	454.9	133.5	59.7	55.9	61.9	70.8	150.6	205.8	148.4	134.2	135.7
67.5°	94.0	66.4	52.9	46.2	46.2	46.2	76.8	128.3	122.3	106.6	108.1
70°	59.7	56.7	46.2	39.5	38.0	35.0	44.0	70.8	84.3	77.6	78.3
72.5°	44.0	43.2	36.5	32.1	28.3	25.4	27.6	35.0	43.2	44.7	45.5
75°	26.8	27.6	23.9	20.1	17.9	15.7	16.4	16.4	16.4	14.9	16.4
77.5°	8.2	8.9	7.5	6.0	5.2	5.2	5.2	4.5	3.7	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2	1.5	1.5	0.7	0.7	0.0	0.0
82.5°	2.2	2.2	2.2	2.2	1.5	1.5	0.7	0.7	0.0	0.0	0.0
85°	2.2	2.2	2.2	2.2	1.5	1.5	0.7	0.7	0.0	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	1.5	1.5	0.7	0.7	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)