

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: P637015

Luminaire Tested: GWS-SA4B-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637015  
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-SA4B-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

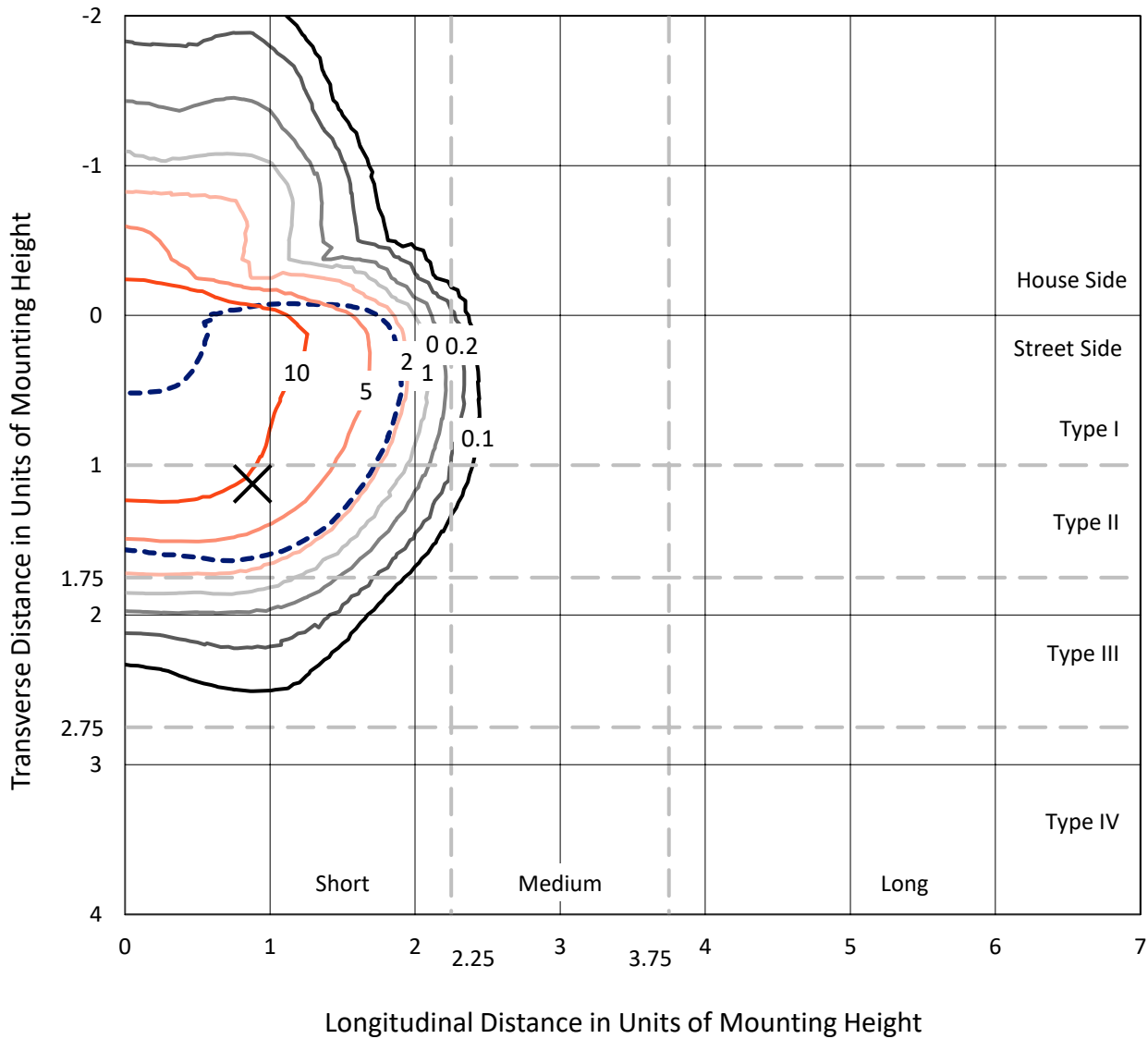
Lumens per Lamp: N/A  
Luminaire Lumens: 7211.6 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

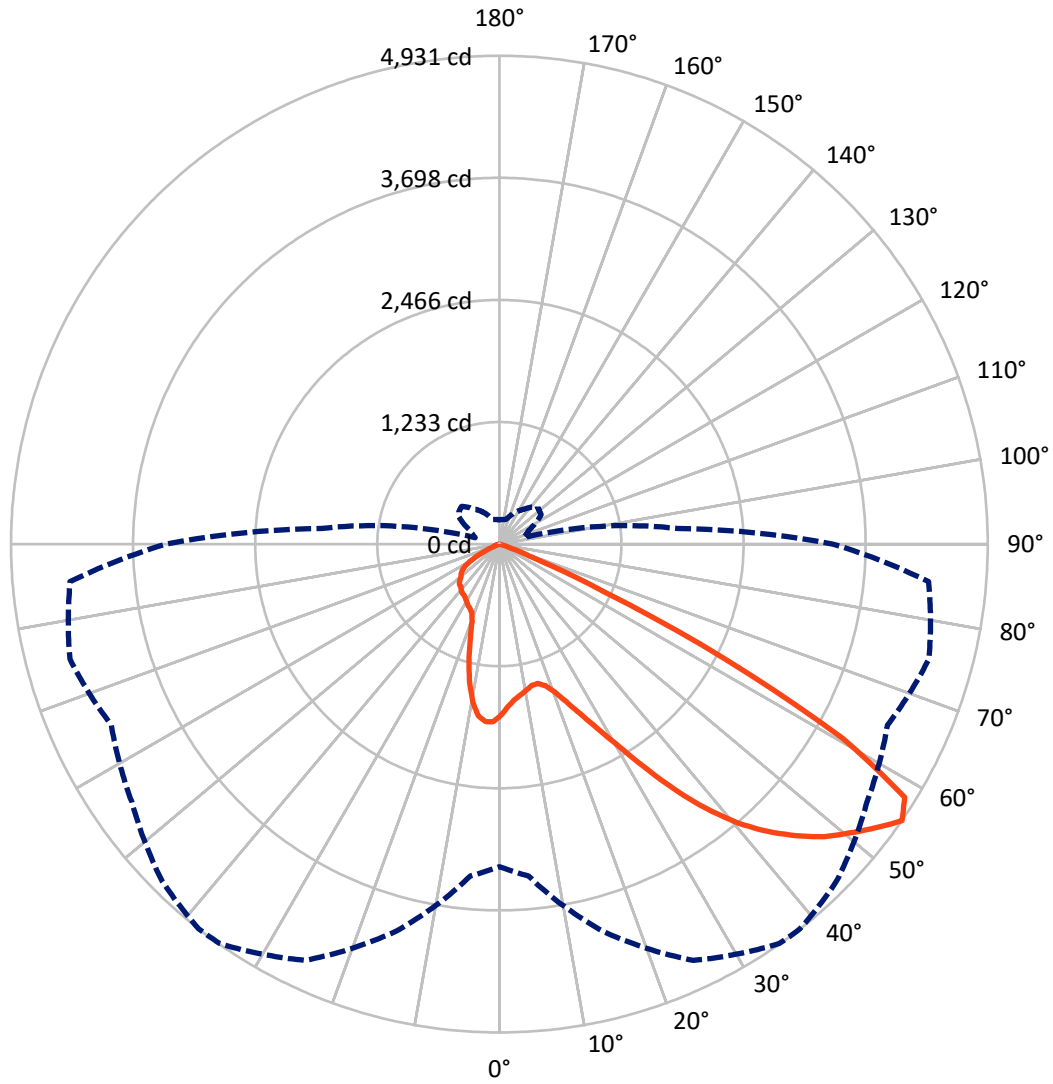
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 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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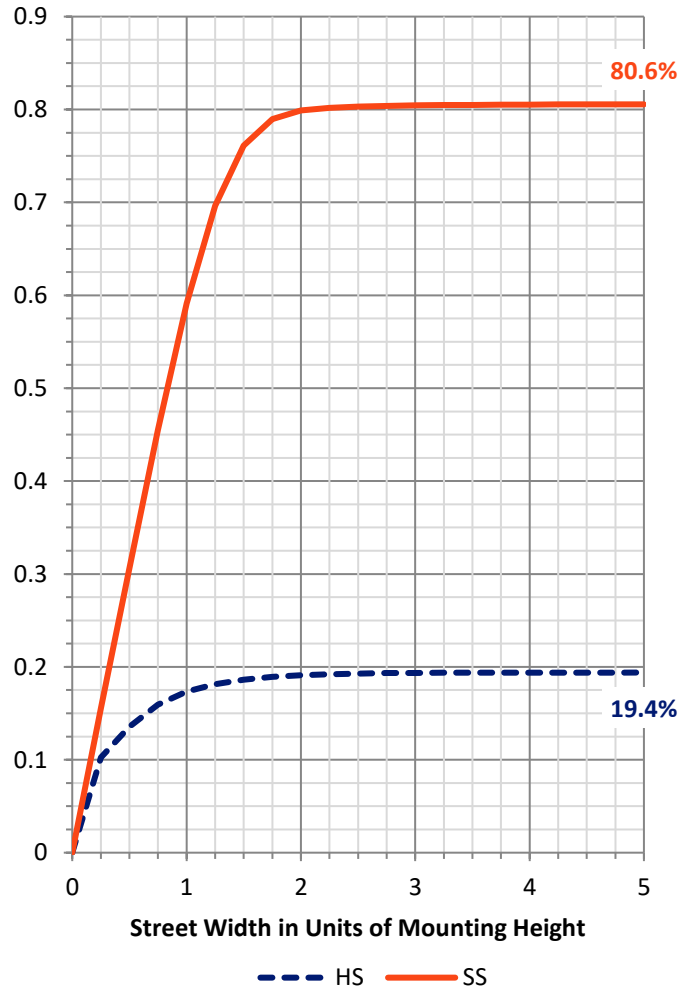
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1405.0	0.0	1405.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5806.5	0.0	5806.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7211.6	0.0	7211.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	2.2
10°-20°	430.5	6.0
20°-30°	738.7	10.2
30°-40°	1225.2	17.0
40°-50°	1801.2	25.0
50°-60°	2104.7	29.2
60°-70°	713.4	9.9
70°-80°	36.5	0.5
80°-90°	1.4	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°	7211.6	100.0
0°-180°	7211.6	100.0

**Coefficient of Utilization**



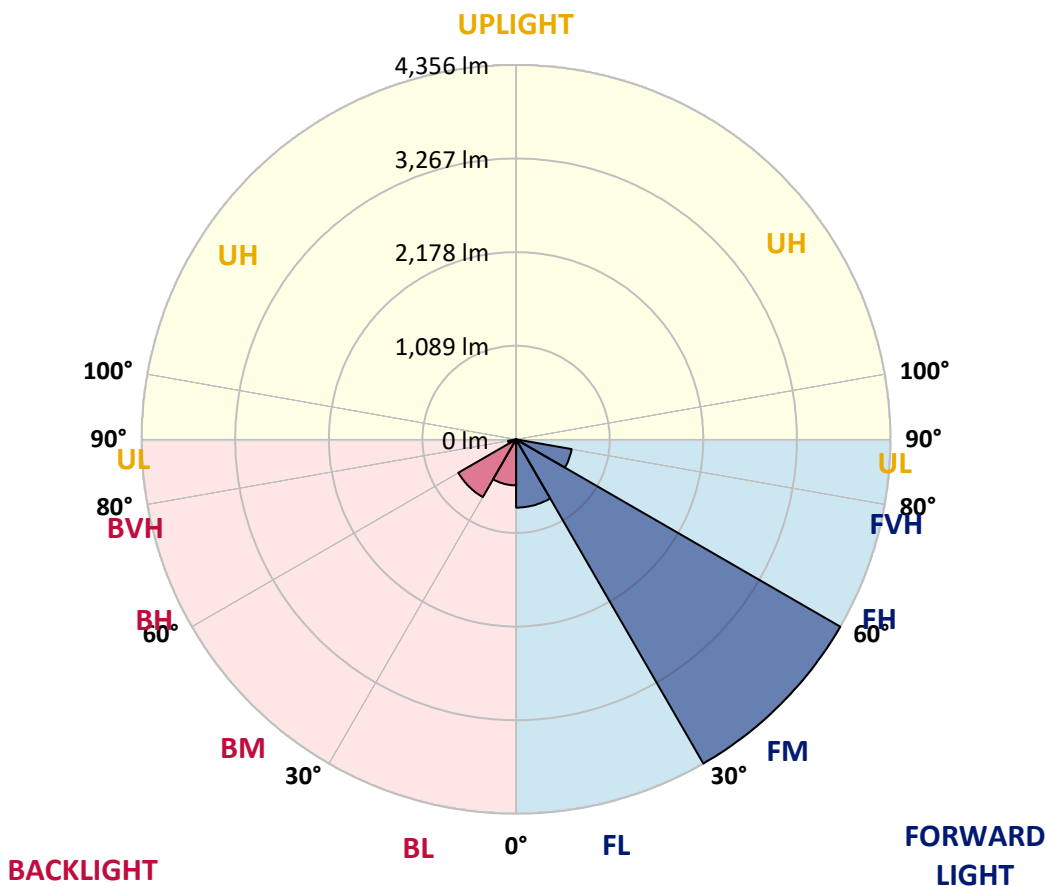
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.8	11.0			
FM (30°-60°)	4355.6	60.4			
FH (60°-80°)	656.4	9.1			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	535.3	7.4	B2/1000		
BM (30°-60°)	775.5	10.8	B1/1000		
BH (60°-80°)	93.5	1.3	B0/110		G0/110
BVH (80°-90°)	0.7	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1610.7	1607.4	1614.0	1627.2	1639.5	1643.7	1656.0	1673.3	1684.1	1709.6	1730.2
5°	1538.2	1536.5	1543.1	1554.6	1571.1	1576.9	1595.9	1624.7	1653.6	1698.1	1741.8
7.5°	1472.2	1471.4	1481.3	1506.8	1530.7	1538.2	1561.2	1596.7	1635.4	1703.8	1768.1
10°	1385.7	1386.5	1405.4	1441.7	1485.4	1500.2	1537.3	1588.4	1638.7	1726.9	1815.9
12.5°	1357.6	1359.3	1369.2	1397.2	1445.0	1464.0	1515.9	1593.4	1657.7	1759.9	1877.8
15°	1426.1	1426.1	1417.8	1421.1	1442.5	1459.8	1514.3	1609.9	1689.8	1799.5	1938.8
17.5°	1558.8	1553.8	1533.2	1505.2	1497.8	1503.5	1547.2	1645.3	1735.2	1845.6	2008.0
20°	1738.5	1740.1	1699.7	1641.2	1594.2	1593.4	1619.8	1708.0	1800.3	1900.9	2083.0
22.5°	1956.1	1949.5	1895.9	1815.9	1734.3	1727.7	1738.5	1803.6	1894.3	1988.2	2175.3
25°	2208.3	2205.0	2129.2	2022.0	1914.0	1898.4	1898.4	1962.7	2028.6	2112.7	2285.8
27.5°	2472.1	2472.1	2398.7	2275.1	2131.7	2103.6	2099.5	2175.3	2219.0	2235.5	2379.0
30°	2743.3	2740.0	2667.5	2540.5	2387.2	2358.3	2346.8	2402.9	2434.2	2384.7	2495.2
32.5°	3018.6	3024.4	2951.0	2833.1	2696.3	2677.4	2641.9	2641.9	2667.5	2598.2	2678.2
35°	3314.5	3312.9	3255.2	3175.2	3058.2	3036.7	2978.2	2886.7	2925.5	2895.0	2931.2
37.5°	3575.8	3588.2	3560.2	3500.8	3406.0	3384.6	3288.2	3122.5	3152.2	3200.0	3232.1
40°	3841.3	3851.2	3879.2	3860.2	3740.7	3701.1	3529.7	3257.7	3290.6	3454.7	3547.0
42.5°	4101.8	4106.7	4163.6	4194.9	4035.0	3965.7	3712.7	3340.1	3374.7	3654.2	3815.7
45°	4267.4	4278.2	4372.1	4467.7	4294.6	4199.8	3871.8	3445.6	3460.4	3792.6	4014.4
47.5°	4260.8	4285.6	4462.0	4635.9	4518.0	4415.8	4063.0	3614.6	3589.9	3922.9	4145.4
50°	4128.1	4157.8	4410.9	4687.0	4678.8	4584.0	4275.7	3859.4	3781.9	4038.3	4161.9
52.5°	3852.8	3938.5	4321.0	4693.6	4808.2	4760.4	4538.6	4189.1	4041.6	4204.0	4188.3
55°	3257.7	3363.2	4048.2	4637.6	4925.2	4931.0	4814.8	4532.9	4323.5	4489.2	4350.7
57.5°	2472.9	2557.0	3115.9	4128.1	4731.5	4826.3	4921.9	4714.2	4497.4	4683.7	4388.6
60°	1490.3	1587.6	1951.1	3029.3	3821.5	3983.1	4358.1	4317.7	4056.4	4136.4	3598.9
62.5°	604.2	655.3	901.0	1669.2	2405.3	2556.2	2915.6	2976.6	2912.3	2830.7	2182.8
65°	220.9	241.5	361.0	689.9	1106.2	1161.4	1351.0	1459.0	1548.0	1318.1	811.9
67.5°	136.8	150.0	234.9	354.5	402.3	374.2	380.8	454.2	433.6	267.9	145.1
70°	101.4	112.1	183.8	245.6	162.4	125.3	84.9	90.7	81.6	71.7	70.9
72.5°	70.1	80.0	137.7	145.1	62.6	44.5	31.3	43.7	49.5	48.6	50.3
75°	46.2	53.6	86.6	56.9	15.7	12.4	10.7	23.1	29.7	29.7	30.5
77.5°	27.2	31.3	30.5	11.5	3.3	3.3	2.5	4.1	6.6	7.4	9.1
80°	3.3	2.5	1.6	1.6	1.6	1.6	1.6	1.6	2.5	2.5	2.5
82.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.5	2.5
85°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.5	2.5
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.5	2.5
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°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1745.9	1740.1	1764.0	1781.3	1795.3	1801.9	1792.9	1792.0	1792.0	1773.9	1769.0
5°	1766.5	1769.0	1802.8	1817.6	1820.1	1811.8	1791.2	1777.2	1769.0	1750.0	1739.3
7.5°	1806.1	1814.3	1846.4	1844.0	1821.7	1783.8	1729.4	1687.4	1660.2	1630.5	1612.3
10°	1862.9	1878.6	1898.4	1863.8	1792.9	1696.4	1584.3	1504.4	1456.6	1422.8	1402.1
12.5°	1932.2	1947.8	1941.2	1859.6	1712.1	1539.8	1395.6	1280.1	1224.9	1194.4	1173.0
15°	2002.2	2012.1	1969.3	1810.2	1569.5	1337.9	1177.1	1062.5	994.9	970.2	952.1
17.5°	2074.0	2071.5	1974.2	1712.9	1379.1	1110.3	952.1	873.8	854.8	850.7	849.0
20°	2149.0	2126.7	1954.4	1573.6	1149.9	885.3	795.5	800.4	835.0	851.5	854.8
22.5°	2234.7	2178.6	1905.0	1384.8	915.8	737.8	746.8	795.5	842.4	864.7	868.0
25°	2326.2	2226.5	1822.5	1142.5	722.1	678.4	732.0	788.0	838.3	865.5	868.8
27.5°	2386.4	2238.0	1687.4	898.5	619.9	655.3	712.2	765.8	817.7	847.4	851.5
30°	2451.5	2233.0	1503.5	692.4	585.3	635.5	685.0	733.6	781.4	814.4	817.7
32.5°	2547.1	2229.8	1279.3	562.2	571.2	619.9	656.1	696.5	729.5	748.5	746.0
35°	2672.4	2225.6	1018.0	506.9	563.0	607.5	636.4	655.3	619.1	607.5	610.0
37.5°	2833.1	2235.5	797.9	483.9	560.5	604.2	628.9	574.5	518.5	497.1	493.8
40°	3011.2	2261.1	608.3	474.8	568.8	612.5	600.9	511.1	441.8	399.8	390.7
42.5°	3190.1	2289.1	481.4	471.5	582.8	635.5	554.8	464.9	361.0	337.1	333.8
45°	3322.8	2284.2	416.3	465.7	595.1	648.7	542.4	399.0	322.3	311.6	312.4
47.5°	3389.6	2229.8	380.8	452.5	600.1	635.5	511.9	371.8	295.9	307.5	317.4
50°	3354.1	2088.8	347.9	427.0	589.4	618.2	463.3	351.2	282.7	330.5	352.8
52.5°	3311.2	1915.7	311.6	387.4	563.8	594.3	444.3	345.4	274.5	319.0	335.5
55°	3368.1	1806.1	252.2	326.4	513.5	538.3	429.5	344.6	255.5	248.1	245.6
57.5°	3288.2	1587.6	180.5	234.9	394.0	426.2	418.7	338.8	226.7	225.9	229.2
60°	2541.3	968.6	123.6	149.2	241.5	272.0	380.0	324.0	195.4	179.7	180.5
62.5°	1444.2	412.2	84.9	92.3	123.6	146.7	290.2	294.3	180.5	171.5	180.5
65°	502.8	147.6	65.9	61.8	68.4	78.3	166.5	227.5	164.0	148.4	150.0
67.5°	103.9	73.4	58.5	51.1	51.1	51.1	84.9	141.8	135.2	117.9	119.5
70°	65.9	62.6	51.1	43.7	42.0	38.7	48.6	78.3	93.1	85.7	86.6
72.5°	48.6	47.8	40.4	35.4	31.3	28.0	30.5	38.7	47.8	49.5	50.3
75°	29.7	30.5	26.4	22.3	19.8	17.3	18.1	18.1	18.1	16.5	18.1
77.5°	9.1	9.9	8.2	6.6	5.8	5.8	5.8	4.9	4.1	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.6	1.6	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)