

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: P631754

Luminaire Tested: GWS-SA2B-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

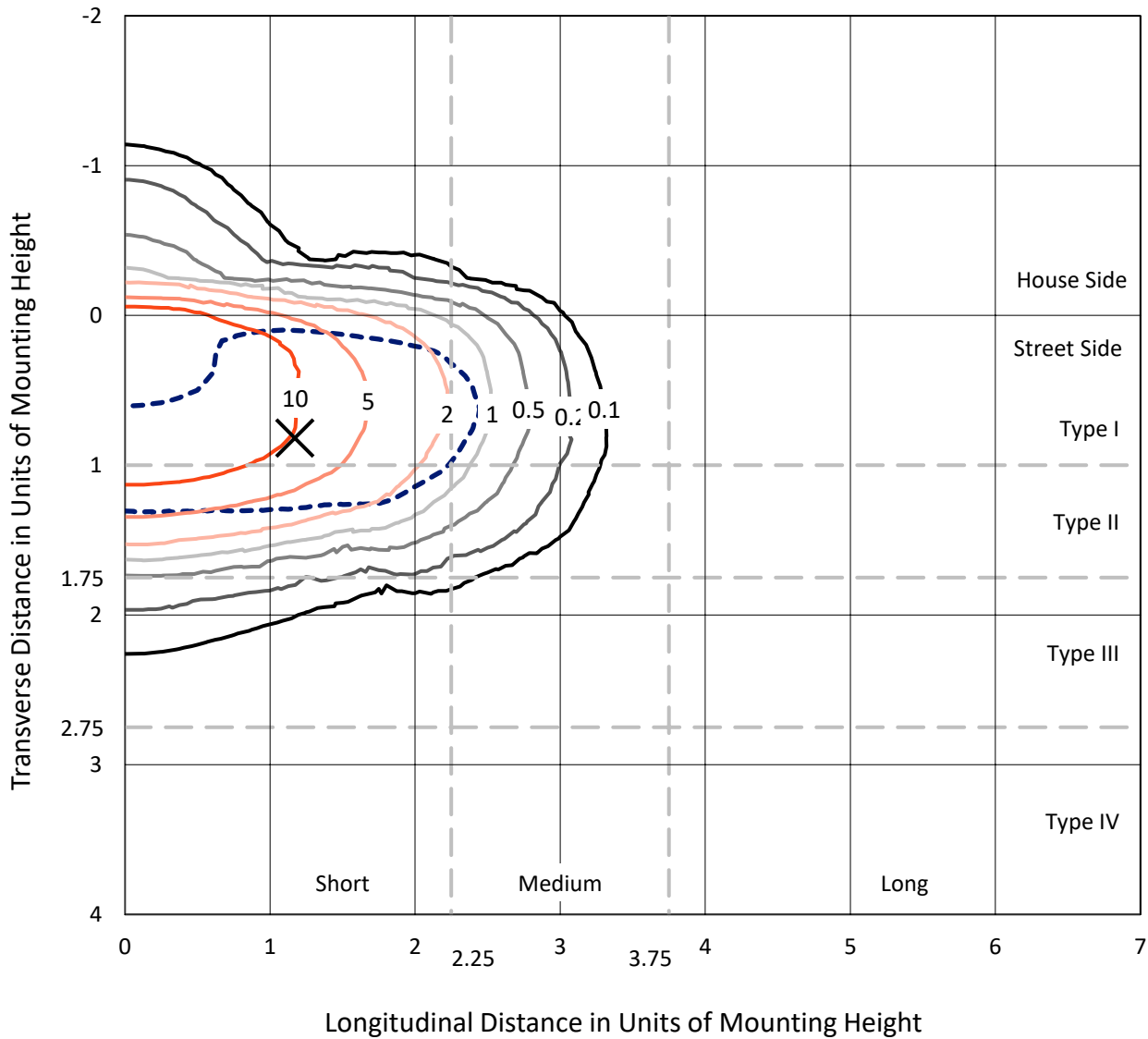
Lumens per Lamp: N/A  
Luminaire Lumens: 5708 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

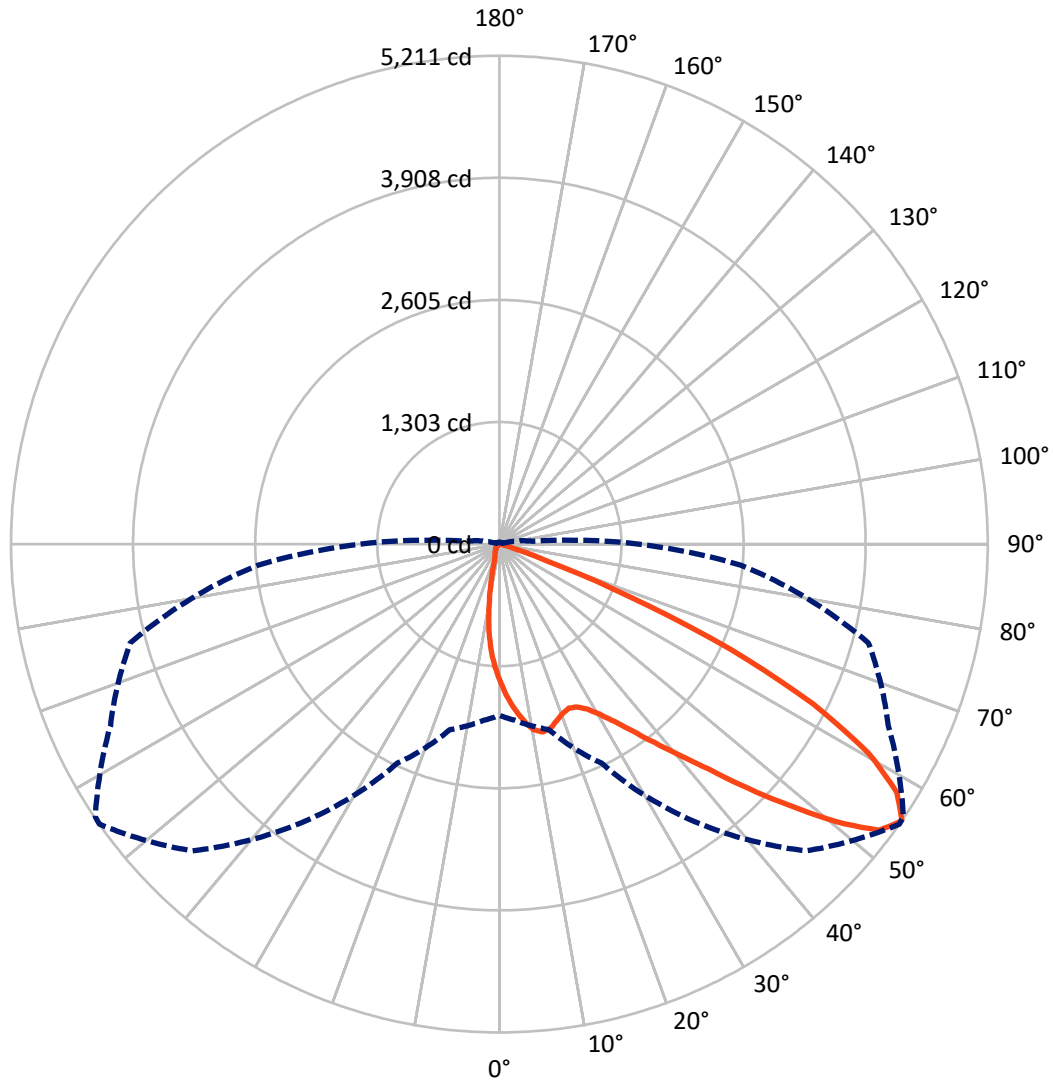
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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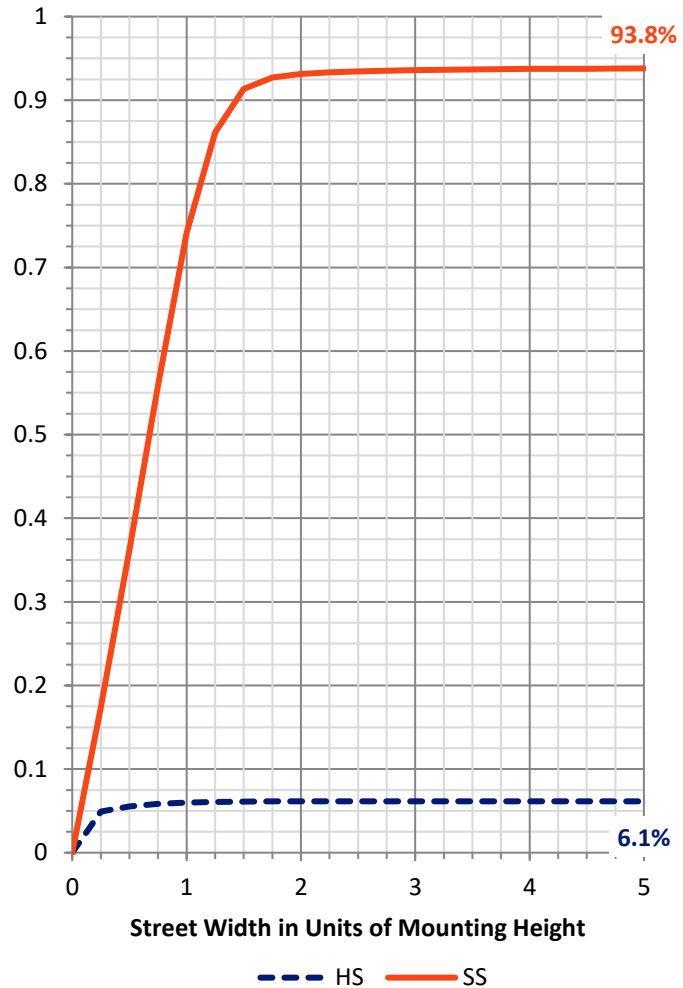
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	352.2	0.0	352.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5355.8	0.0	5355.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5708.0	0.0	5708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.3	2.3
10°-20°	314.2	5.5
20°-30°	523.2	9.2
30°-40°	891.6	15.6
40°-50°	1455.5	25.5
50°-60°	1523.8	26.7
60°-70°	768.6	13.5
70°-80°	97.1	1.7
80°-90°	3.7	0.1
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°	5708.0	100.0
0°-180°	5708.0	100.0

**Coefficient of Utilization**



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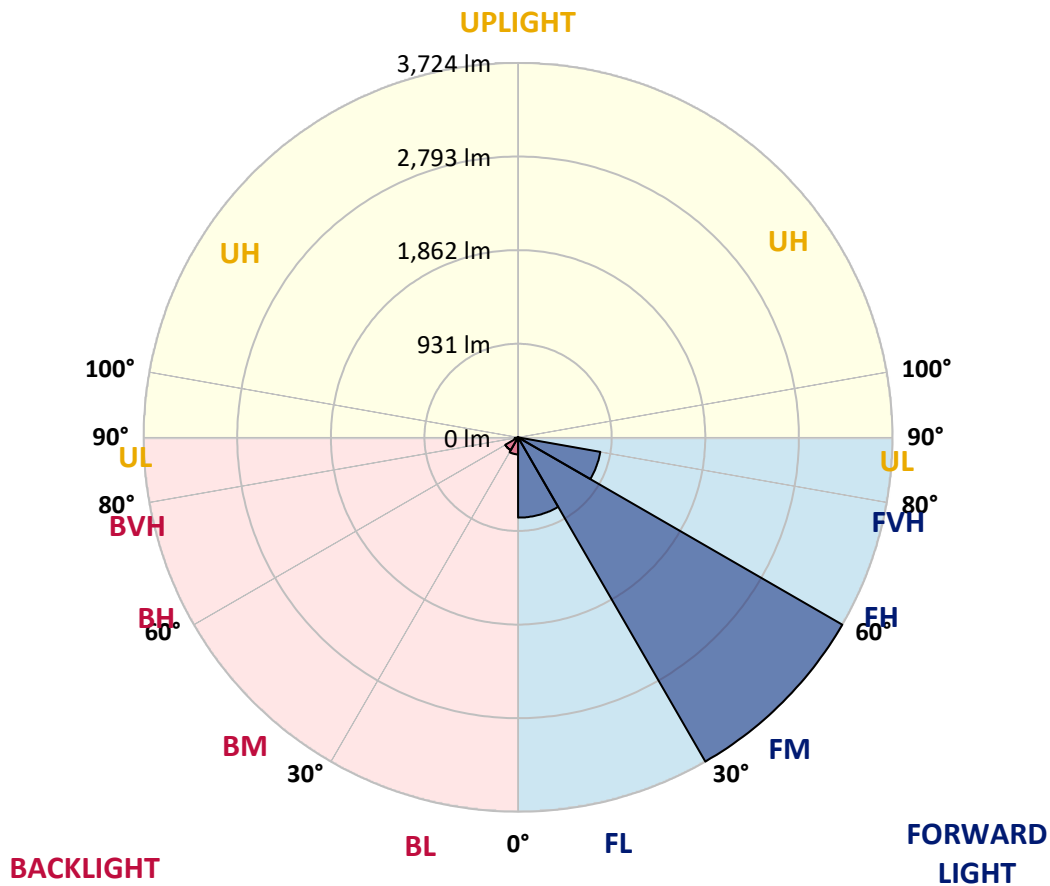
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.5	14.0			
FM (30°-60°)	3723.6	65.2			
FH (60°-80°)	830.3	14.5			G1/1800
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	169.3	3.0	B1/500		
BM (30°-60°)	147.3	2.6	B0/220		
BH (60°-80°)	35.3	0.6	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6
2.5°	1719.1	1710.8	1723.5	1708.8	1683.9	1663.0	1635.6	1625.9	1582.0	1540.5	1500.5
5°	1927.9	1930.4	1926.5	1906.0	1870.8	1831.8	1776.7	1764.5	1687.9	1608.8	1523.4
7.5°	1979.7	1978.2	1986.5	1994.3	1988.4	1968.9	1908.9	1896.7	1801.5	1683.0	1558.5
10°	1820.1	1821.1	1838.1	1890.8	1956.2	2024.1	2014.8	2008.0	1914.8	1766.9	1597.6
12.5°	1594.7	1603.4	1621.5	1696.6	1807.4	1961.6	2057.2	2064.1	2018.7	1859.1	1643.4
15°	1497.1	1499.0	1513.6	1559.0	1641.5	1831.8	2039.2	2058.2	2105.5	1951.8	1693.2
17.5°	1494.6	1497.1	1503.4	1523.4	1577.1	1729.8	1981.1	2014.3	2170.9	2051.4	1752.7
20°	1586.4	1584.9	1580.5	1569.8	1593.2	1696.1	1927.4	1964.0	2206.6	2148.5	1812.8
22.5°	1752.7	1750.8	1731.3	1686.9	1667.8	1726.9	1901.1	1934.3	2228.0	2234.9	1862.1
25°	1944.5	1958.2	1921.6	1854.2	1807.4	1805.4	1924.5	1947.9	2246.6	2311.5	1895.7
27.5°	2154.8	2159.2	2128.0	2052.4	1984.5	1931.3	1992.3	2009.9	2267.1	2379.8	1914.8
30°	2385.6	2384.2	2348.5	2260.7	2178.3	2101.6	2106.5	2113.4	2314.9	2457.9	1935.7
32.5°	2674.0	2680.4	2616.9	2497.4	2398.3	2292.4	2255.8	2256.8	2401.2	2558.4	1967.5
35°	3065.8	3050.2	2966.3	2796.0	2627.2	2513.0	2450.5	2445.2	2534.5	2693.5	2022.6
37.5°	3439.1	3440.6	3352.8	3165.4	2952.2	2772.1	2683.8	2669.1	2721.8	2880.9	2114.3
40°	3698.2	3703.1	3666.5	3568.4	3342.5	3087.8	2958.0	2942.9	2964.8	3118.1	2234.4
42.5°	3835.4	3849.0	3859.3	3882.2	3710.9	3482.1	3282.5	3281.0	3258.1	3388.4	2373.4
45°	3840.7	3861.2	3923.7	4080.3	4099.8	3932.0	3714.8	3682.1	3593.8	3677.7	2497.9
47.5°	3628.5	3675.8	3808.5	4118.9	4323.8	4379.4	4164.2	4144.2	3896.4	3906.6	2591.1
50°	3133.7	3183.0	3427.4	3921.2	4380.4	4734.7	4657.6	4616.1	4149.1	4057.9	2636.0
52.5°	2626.2	2671.1	2837.0	3450.8	4145.7	4846.4	5073.3	5024.0	4376.0	4110.6	2617.4
55°	1827.4	1887.4	2049.4	2579.4	3605.0	4628.8	5210.9	5200.7	4578.5	4077.4	2588.6
57.5°	895.9	955.4	1116.9	1590.3	2670.6	4041.3	5000.6	5054.8	4699.5	4041.8	2565.2
60°	374.3	398.7	454.3	697.8	1494.1	3054.1	4525.8	4601.0	4625.4	3993.5	2562.8
62.5°	217.1	221.0	226.9	289.4	581.2	1750.8	3754.4	3861.2	4235.5	3929.5	2524.2
65°	164.0	165.4	163.0	177.6	240.1	664.1	2712.6	2858.0	3535.3	3679.7	2372.0
67.5°	134.7	134.7	128.3	131.3	150.8	248.9	1497.5	1700.5	2615.9	3024.4	1958.7
70°	107.4	109.8	106.9	103.0	107.8	137.6	532.9	660.7	1523.4	1785.9	1142.3
72.5°	81.5	81.5	86.4	83.4	80.0	86.4	185.9	208.8	611.4	744.6	412.3
75°	62.9	64.9	68.3	65.4	60.5	51.2	89.3	94.7	184.4	173.2	92.2
77.5°	32.2	32.7	43.4	47.8	44.9	31.2	39.0	42.9	60.0	53.7	34.2
80°	19.5	20.5	24.4	37.6	29.8	16.6	16.1	17.1	28.3	24.4	14.2
82.5°	8.3	8.8	13.7	13.7	12.2	6.3	6.3	6.3	13.7	12.7	5.9
85°	0.0	0.0	2.4	2.0	2.0	2.4	2.4	2.4	3.4	4.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5
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°	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6	1474.6
2.5°	1474.6	1443.4	1401.4	1363.4	1312.1	1283.3	1243.3	1210.6	1182.8	1174.0	1170.1
5°	1475.1	1421.4	1331.6	1241.9	1131.6	1044.7	955.4	884.7	826.6	808.1	803.2
7.5°	1484.9	1405.8	1260.4	1097.4	913.0	760.7	624.6	502.6	446.0	427.0	423.1
10°	1498.0	1392.6	1177.9	924.2	659.2	463.6	328.4	250.3	213.2	192.7	195.7
12.5°	1515.1	1381.9	1086.7	736.8	436.2	254.7	180.5	151.3	143.5	139.6	137.6
15°	1538.0	1369.2	973.5	550.9	267.4	164.0	139.1	131.3	128.3	126.4	125.9
17.5°	1561.5	1354.6	858.3	387.4	177.6	136.1	124.9	121.0	119.1	117.6	117.1
20°	1586.4	1329.7	723.2	266.9	140.0	122.5	115.2	110.8	108.3	105.9	105.4
22.5°	1597.1	1289.7	593.8	186.9	124.4	112.7	103.4	98.1	95.2	93.2	93.2
25°	1586.8	1224.8	460.1	142.0	113.2	102.0	92.7	86.9	84.4	82.5	82.5
27.5°	1559.5	1141.3	335.7	117.6	101.0	90.8	82.0	76.6	74.7	73.7	73.7
30°	1529.3	1035.9	236.7	101.0	87.3	79.0	71.7	68.3	67.8	66.9	66.9
32.5°	1503.4	937.4	163.0	88.8	77.1	68.8	63.9	62.5	62.9	62.0	62.5
35°	1489.3	840.8	121.0	79.0	68.8	61.0	58.6	58.6	58.6	58.1	58.1
37.5°	1495.1	745.6	98.6	72.2	61.5	55.6	53.2	54.2	55.1	55.1	55.1
40°	1524.4	661.2	87.3	65.9	55.1	50.7	48.8	50.3	51.7	52.7	52.7
42.5°	1561.5	592.9	79.0	60.5	50.7	45.9	44.9	46.4	47.8	48.8	48.8
45°	1584.9	524.1	70.8	53.7	46.4	40.5	40.5	42.5	42.0	42.5	42.5
47.5°	1595.6	469.4	62.5	46.4	39.5	35.1	35.6	36.6	35.6	36.6	36.6
50°	1569.3	414.3	55.1	38.5	32.7	30.7	31.7	31.2	31.2	33.2	33.2
52.5°	1521.0	373.3	48.8	32.7	27.8	27.3	28.3	26.3	26.8	26.8	26.3
55°	1485.3	349.9	43.4	28.3	23.9	24.4	23.9	20.5	18.5	16.6	16.1
57.5°	1467.8	340.6	39.5	25.4	21.5	21.5	19.5	14.2	10.7	8.3	7.3
60°	1463.9	329.4	35.6	22.0	19.0	18.1	14.2	8.3	5.4	3.9	3.4
62.5°	1426.8	302.0	32.2	17.6	16.6	14.6	8.8	4.9	2.9	2.0	1.5
65°	1305.3	248.4	28.8	13.7	12.7	10.7	5.4	2.9	1.5	0.5	0.0
67.5°	1038.4	176.2	25.4	10.2	8.8	6.8	3.4	2.0	0.5	0.0	0.0
70°	598.7	95.2	21.0	7.3	5.9	4.4	2.4	1.0	0.0	0.0	0.0
72.5°	200.1	44.4	16.1	4.9	4.4	3.4	1.5	0.5	0.0	0.0	0.0
75°	43.9	26.3	10.7	3.4	2.9	2.4	1.0	0.0	0.0	0.0	0.0
77.5°	16.6	18.5	5.4	2.4	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.3	12.2	2.4	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	4.9	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.4	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.5	0.5	0.0	0.0	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)