

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: P636992

Luminaire Tested: GWS-SA4B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-830-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

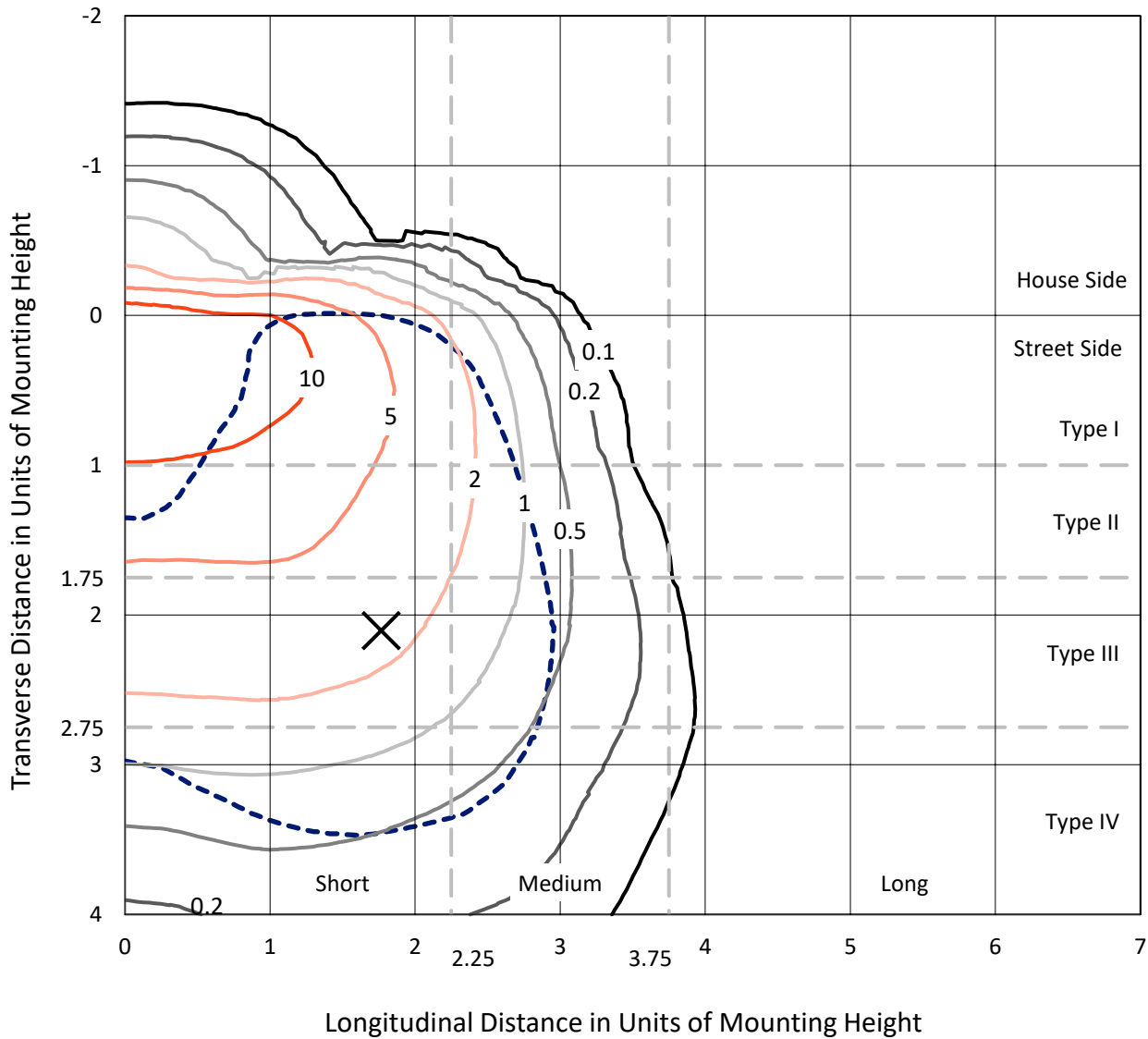
Lumens per Lamp: N/A  
Luminaire Lumens: 9059.6 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

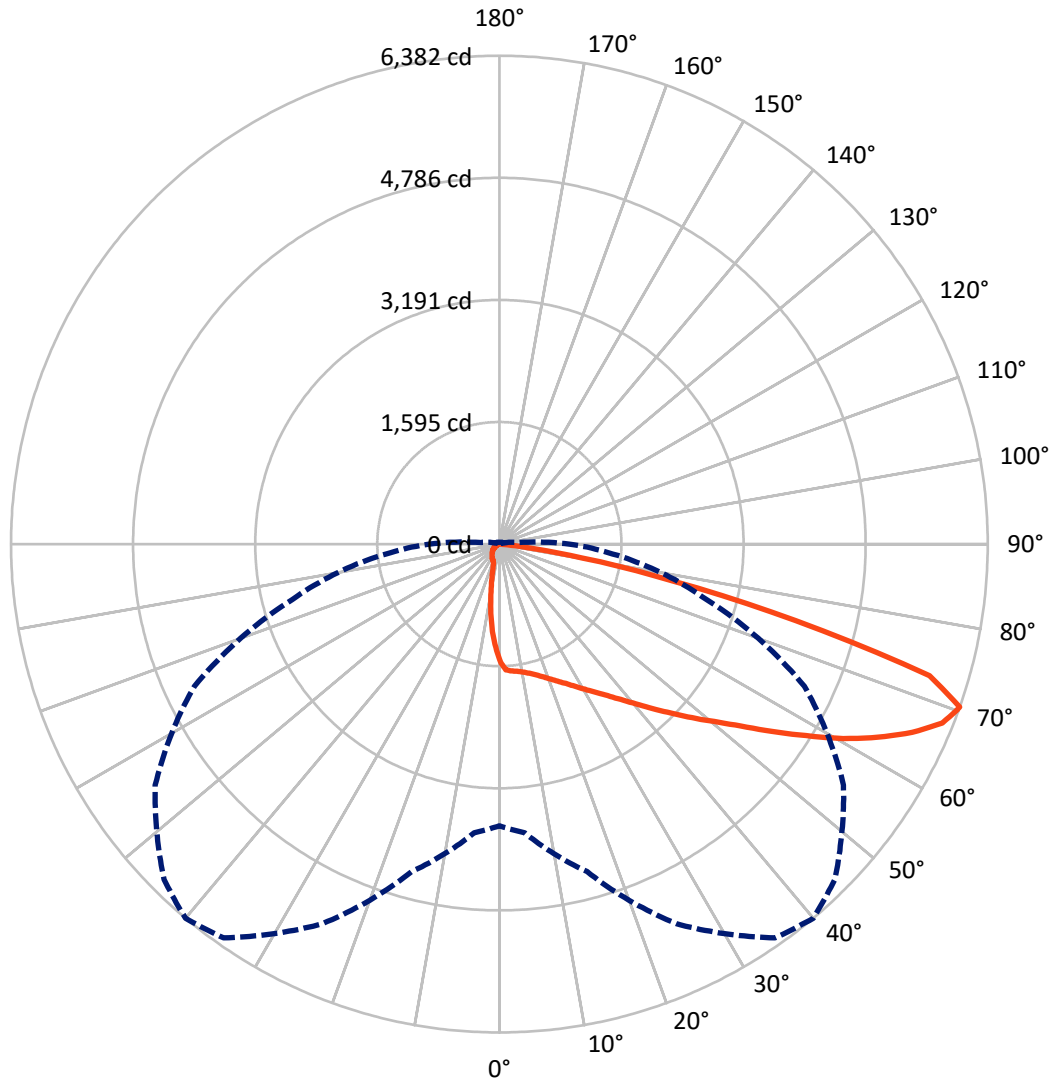
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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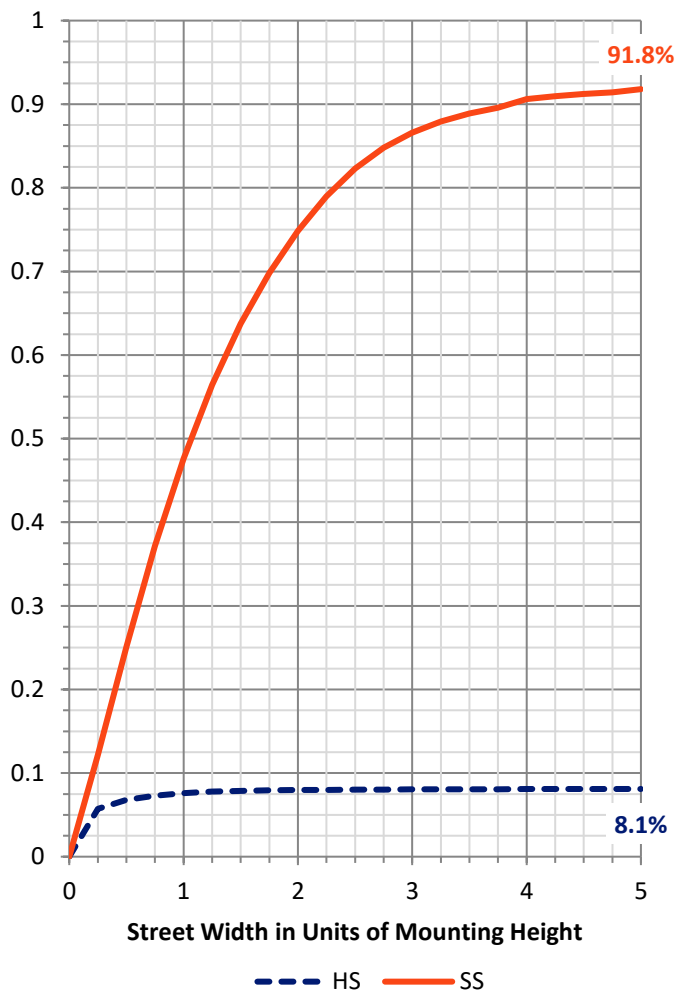
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	740.8	0.0	740.8
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	8318.8	0.0	8318.8
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	9059.6	0.0	9059.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	1.4
10°-20°	329.5	3.6
20°-30°	551.5	6.1
30°-40°	866.3	9.6
40°-50°	1370.2	15.1
50°-60°	1998.8	22.1
60°-70°	2477.8	27.4
70°-80°	1253.6	13.8
80°-90°	81.8	0.9
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°	9059.6	100.0
0°-180°	9059.6	100.0

**Coefficient of Utilization**



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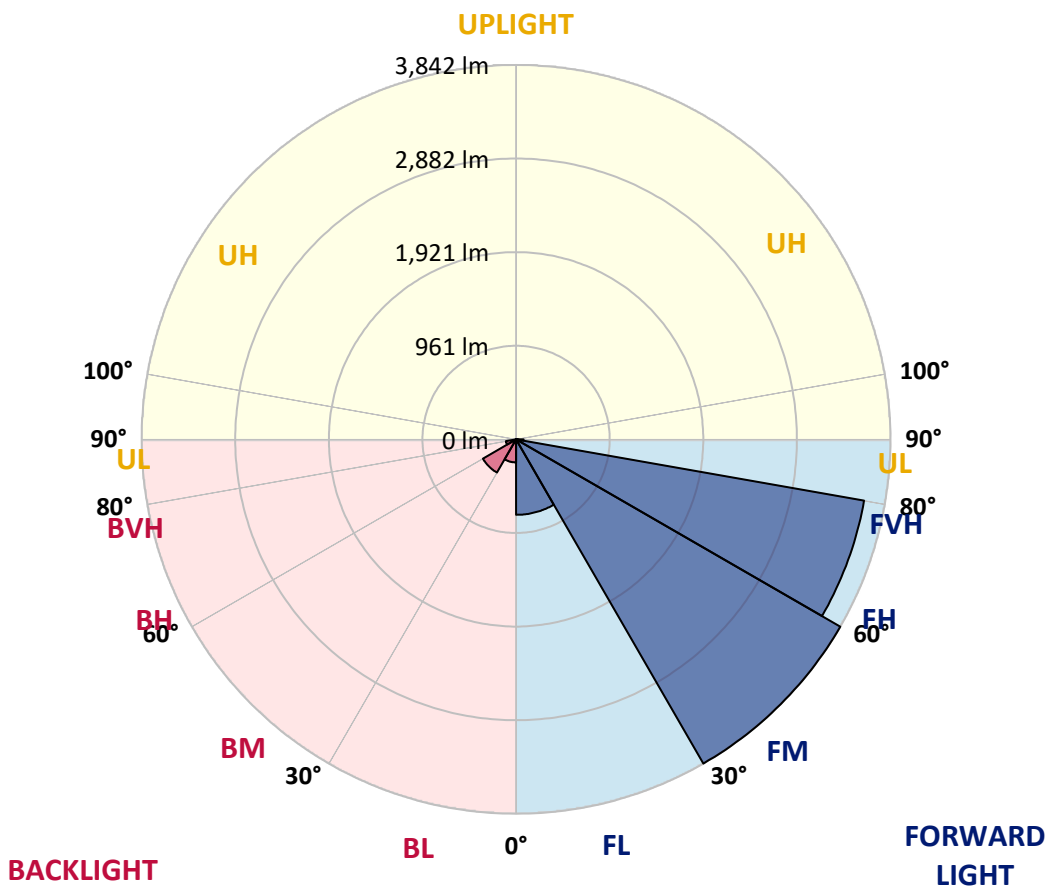
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.4	8.5			
FM (30°-60°)	3842.1	42.4			
FH (60°-80°)	3625.8	40.0			G2/5000
FVH (80°-90°)	76.4	0.8			G1/100
BL (0°-30°)	236.6	2.6	B1/500		
BM (30°-60°)	393.2	4.3	B1/1000		
BH (60°-80°)	105.6	1.2	B0/110		G0/110
BVH (80°-90°)	5.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1652.7	1658.5	1657.7	1660.1	1654.4	1645.3	1643.6	1631.3	1609.0	1581.0	1549.7
5°	1686.5	1693.1	1688.2	1685.7	1675.0	1665.1	1662.6	1649.4	1623.9	1585.9	1531.5
7.5°	1715.4	1717.0	1713.7	1707.9	1692.3	1679.1	1670.0	1651.9	1621.4	1583.5	1520.8
10°	1720.3	1719.5	1721.1	1721.9	1712.1	1700.5	1693.1	1668.4	1629.6	1589.2	1521.6
12.5°	1714.5	1714.5	1725.2	1737.6	1737.6	1731.8	1724.4	1702.2	1656.8	1609.0	1538.1
15°	1721.9	1724.4	1745.0	1768.1	1775.5	1769.8	1766.5	1743.4	1696.4	1643.6	1567.8
17.5°	1748.3	1750.8	1783.8	1818.4	1827.5	1820.9	1814.3	1791.2	1740.9	1683.2	1601.6
20°	1787.1	1793.7	1835.7	1880.2	1888.5	1880.2	1867.0	1834.9	1784.6	1726.1	1633.7
22.5°	1858.0	1862.1	1907.4	1954.4	1958.5	1945.3	1925.5	1881.0	1828.3	1771.4	1670.0
25°	1951.9	1957.7	2003.0	2048.4	2037.7	2017.9	1990.7	1940.4	1880.2	1825.0	1716.2
27.5°	2064.0	2070.6	2115.1	2154.7	2126.7	2103.6	2073.1	2010.4	1949.5	1899.2	1775.5
30°	2185.2	2191.0	2230.5	2266.0	2228.9	2201.7	2165.4	2101.1	2039.3	2001.4	1859.6
32.5°	2302.2	2301.4	2339.3	2368.2	2330.3	2308.8	2275.9	2210.8	2161.3	2144.8	1984.9
35°	2411.1	2411.1	2442.4	2471.2	2444.0	2432.5	2402.0	2350.1	2322.0	2341.8	2152.2
37.5°	2520.7	2514.9	2544.6	2576.7	2574.3	2575.1	2557.8	2533.1	2534.7	2604.8	2382.2
40°	2611.4	2608.9	2643.5	2685.5	2718.5	2744.9	2734.2	2743.2	2795.2	2926.2	2676.5
42.5°	2683.9	2689.7	2734.2	2800.9	2884.2	2937.8	2945.2	2982.3	3115.8	3318.6	3008.7
45°	2767.1	2768.0	2829.8	2932.0	3064.7	3149.6	3179.3	3274.9	3464.5	3725.8	3373.0
47.5°	2869.4	2859.5	2928.7	3072.1	3264.2	3389.5	3442.2	3561.8	3855.2	4123.1	3669.8
50°	2982.3	2964.2	3042.5	3237.8	3487.6	3644.2	3751.4	3926.1	4242.6	4449.5	3890.7
52.5°	3113.4	3096.0	3185.1	3428.2	3755.5	3945.9	4083.5	4259.9	4574.8	4698.5	4022.5
55°	3279.9	3262.5	3356.5	3656.6	4072.0	4319.3	4463.5	4611.9	4883.9	4882.3	4118.2
57.5°	3464.5	3440.6	3570.8	3945.1	4466.8	4724.0	4870.7	4943.3	5118.9	5024.9	4182.5
60°	3676.3	3654.9	3835.4	4288.8	4922.7	5160.9	5253.2	5223.5	5311.7	5109.0	4160.2
62.5°	3867.6	3857.7	4081.9	4653.1	5357.1	5558.2	5583.8	5454.3	5453.5	5110.6	4010.2
65°	4066.2	4085.2	4418.2	5072.7	5794.0	5929.1	5885.4	5683.5	5510.4	4908.7	3566.7
67.5°	4140.4	4195.6	4639.9	5451.9	6138.5	6244.0	6167.4	5798.1	5273.8	4229.4	2716.0
70°	3682.1	3786.0	4430.6	5473.3	6281.1	6381.7	6197.9	5489.8	4396.8	2801.8	1487.8
72.5°	2800.1	2921.3	3692.0	4481.7	5648.9	5878.0	5564.0	4472.6	2833.9	1227.4	499.5
75°	1567.0	1698.0	2749.8	3374.7	3792.6	4001.9	3886.5	2869.4	1255.4	320.6	149.2
77.5°	530.0	573.7	1279.3	2087.9	2503.4	2315.4	1960.2	1425.2	461.6	122.0	79.1
80°	314.1	330.5	476.4	1039.4	1317.2	1092.2	862.2	526.7	234.9	65.1	55.2
82.5°	94.0	111.3	262.9	385.8	516.0	321.5	272.0	300.9	122.0	35.4	46.2
85°	0.0	0.0	56.1	119.5	135.2	52.8	52.8	170.6	22.3	14.8	33.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.1	2.5	3.3	7.4
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°	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1527.4	1498.6	1464.8	1432.6	1402.1	1362.6	1343.6	1320.5	1300.7	1290.0	1295.8
5°	1496.9	1451.6	1382.3	1312.3	1241.4	1174.6	1114.4	1074.1	1037.8	1018.8	1022.9
7.5°	1470.5	1409.5	1301.6	1187.0	1073.2	958.7	865.5	793.0	736.9	713.8	709.7
10°	1459.0	1382.3	1229.8	1065.0	890.2	736.1	604.2	524.3	467.4	439.3	444.3
12.5°	1464.8	1368.3	1168.8	945.5	718.8	539.1	413.0	338.0	297.6	281.1	277.0
15°	1481.3	1365.0	1114.4	823.5	554.7	376.7	285.2	254.7	246.5	244.8	244.8
17.5°	1500.2	1365.9	1058.4	699.8	421.2	279.4	244.0	238.2	235.7	234.1	234.9
20°	1519.2	1365.9	994.1	574.5	316.5	241.5	232.5	228.3	225.9	225.0	225.0
22.5°	1542.3	1365.9	922.4	458.3	253.9	229.2	221.7	219.3	216.8	216.0	215.1
25°	1570.3	1366.7	843.3	358.6	230.8	218.4	212.7	210.2	207.7	206.1	206.1
27.5°	1610.7	1373.3	755.9	279.4	217.6	208.5	203.6	201.1	198.7	196.2	196.2
30°	1669.2	1389.8	657.8	230.8	205.2	197.8	192.9	191.2	188.8	186.3	185.5
32.5°	1756.6	1418.6	556.4	206.9	193.7	186.3	180.5	178.9	176.4	173.9	173.1
35°	1878.6	1471.4	457.5	192.1	178.9	171.5	168.2	167.3	164.0	161.6	161.6
37.5°	2057.4	1557.1	362.7	177.2	166.5	160.7	156.6	155.0	151.7	149.2	148.4
40°	2275.9	1668.4	281.9	165.7	155.0	149.2	145.1	142.6	138.5	135.2	133.5
42.5°	2554.5	1804.4	222.6	153.3	144.3	138.5	135.2	130.2	124.5	119.5	118.7
45°	2844.6	1944.5	183.8	141.8	134.4	129.4	125.3	118.7	110.5	104.7	103.0
47.5°	3067.2	2031.9	160.7	129.4	123.6	119.5	114.6	106.3	96.4	89.8	88.2
50°	3226.3	2045.1	143.4	117.9	114.6	110.5	103.0	93.1	82.4	75.8	74.2
52.5°	3304.6	1985.7	129.4	107.2	104.7	100.6	91.5	80.8	69.2	62.6	61.0
55°	3340.0	1873.6	116.2	98.1	94.8	89.8	80.0	68.4	56.9	51.1	49.5
57.5°	3326.0	1707.9	104.7	89.0	84.9	79.1	68.4	56.1	47.0	41.2	40.4
60°	3222.2	1475.5	93.1	80.0	75.0	68.4	57.7	46.2	37.9	33.8	33.0
62.5°	2998.0	1187.0	81.6	69.2	65.9	59.3	49.5	37.9	31.3	28.9	28.0
65°	2538.8	839.1	70.1	58.5	56.9	50.3	41.2	31.3	27.2	25.6	24.7
67.5°	1825.0	510.2	59.3	50.3	48.6	42.9	34.6	27.2	24.7	23.9	23.9
70°	917.4	241.5	47.0	41.2	41.2	35.4	29.7	24.7	23.9	23.1	23.1
72.5°	311.6	103.0	35.4	32.1	33.8	30.5	25.6	23.1	23.1	23.1	23.1
75°	106.3	54.4	24.7	23.1	24.7	24.7	22.3	22.3	23.1	23.1	23.1
77.5°	69.2	36.3	17.3	15.7	19.0	19.0	19.0	20.6	22.3	22.3	22.3
80°	56.9	19.8	11.5	10.7	14.0	14.0	15.7	19.0	20.6	20.6	20.6
82.5°	48.6	12.4	6.6	7.4	9.9	10.7	13.2	15.7	18.1	19.0	19.0
85°	33.0	6.6	4.9	5.8	6.6	8.2	10.7	13.2	14.8	16.5	16.5
87.5°	9.1	2.5	3.3	4.1	4.1	5.8	8.2	9.9	11.5	12.4	12.4
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)