

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: P637017

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
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-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

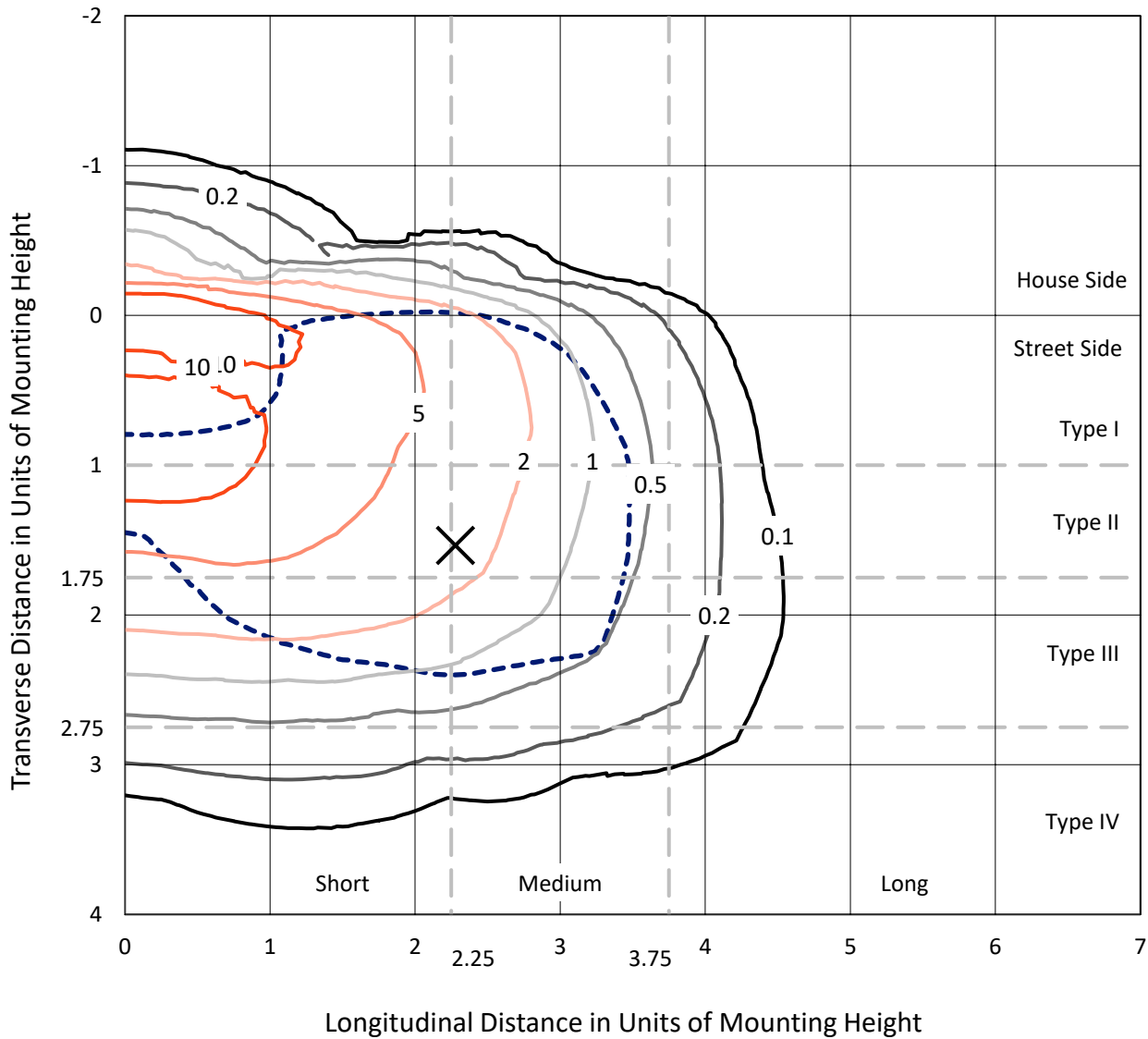
Lumens per Lamp: N/A  
Luminaire Lumens: 9001.1 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

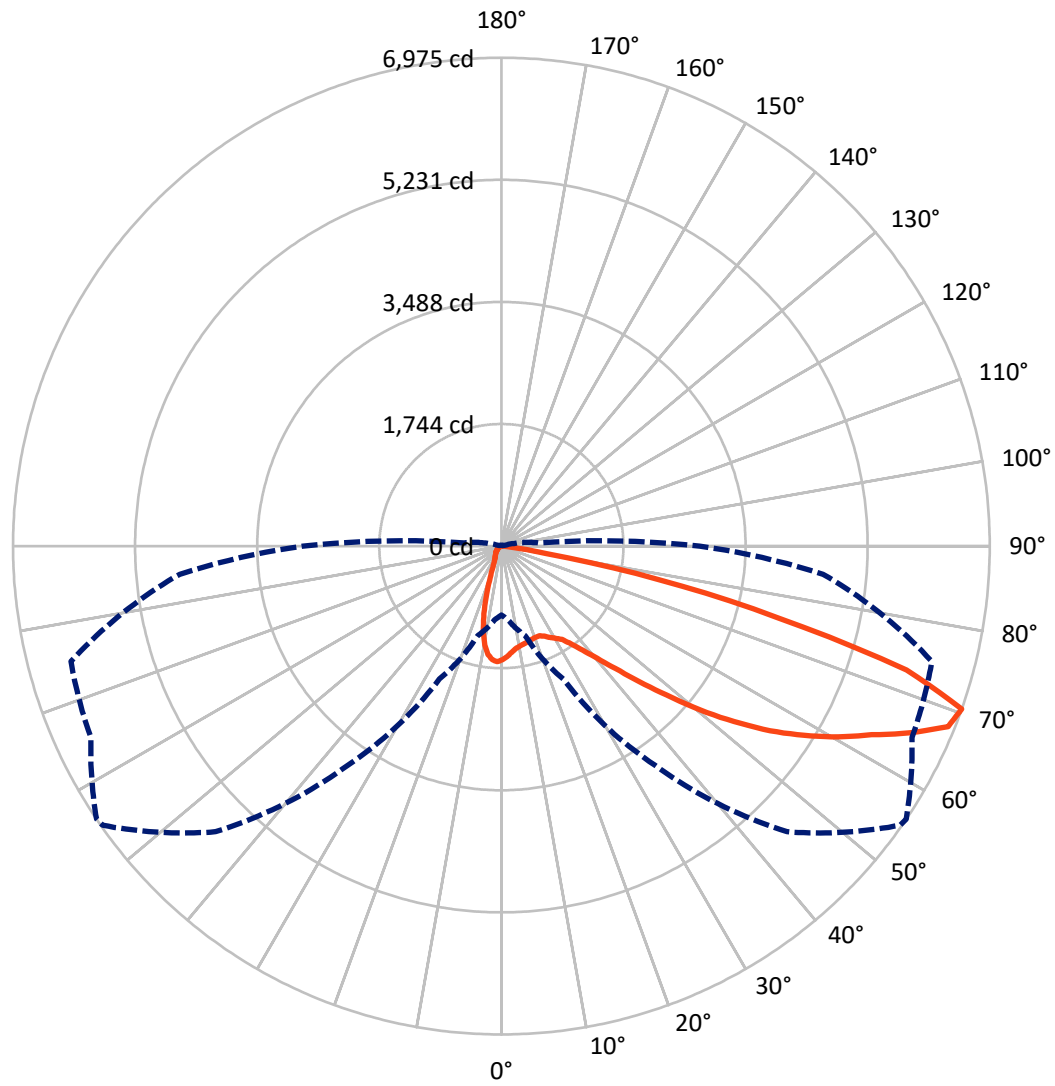
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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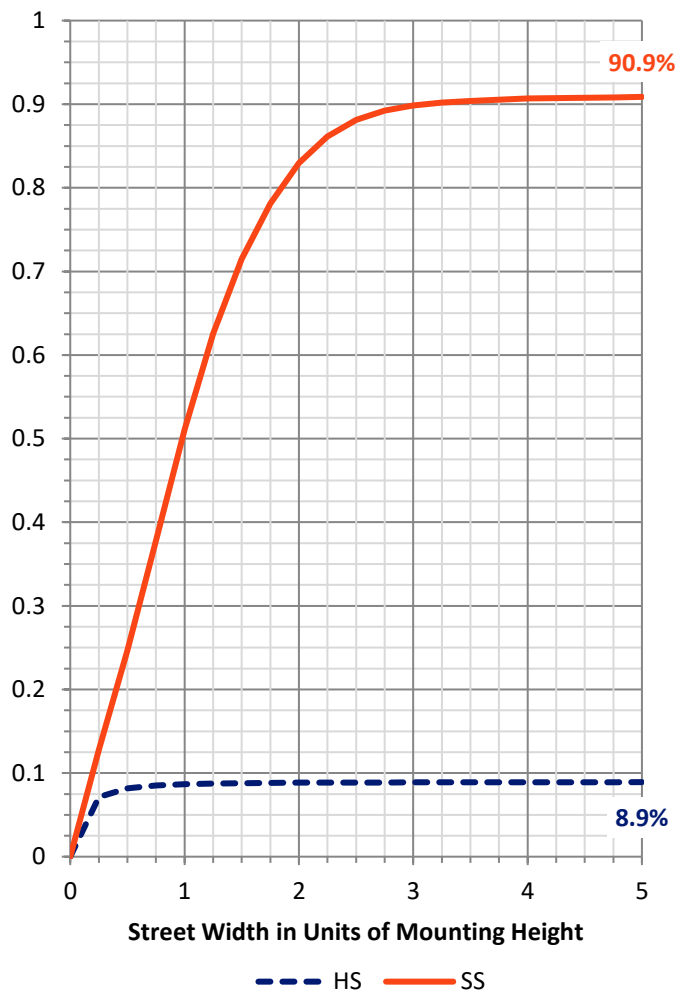
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	808.5	0.0	808.5
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	8192.6	0.0	8192.6
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	9001.1	0.0	9001.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	1.5
10°-20°	313.4	3.5
20°-30°	496.4	5.5
30°-40°	856.1	9.5
40°-50°	1445.7	16.1
50°-60°	2124.2	23.6
60°-70°	2518.3	28.0
70°-80°	1073.9	11.9
80°-90°	33.7	0.4
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°	9001.1	100.0
0°-180°	9001.1	100.0

**Coefficient of Utilization**



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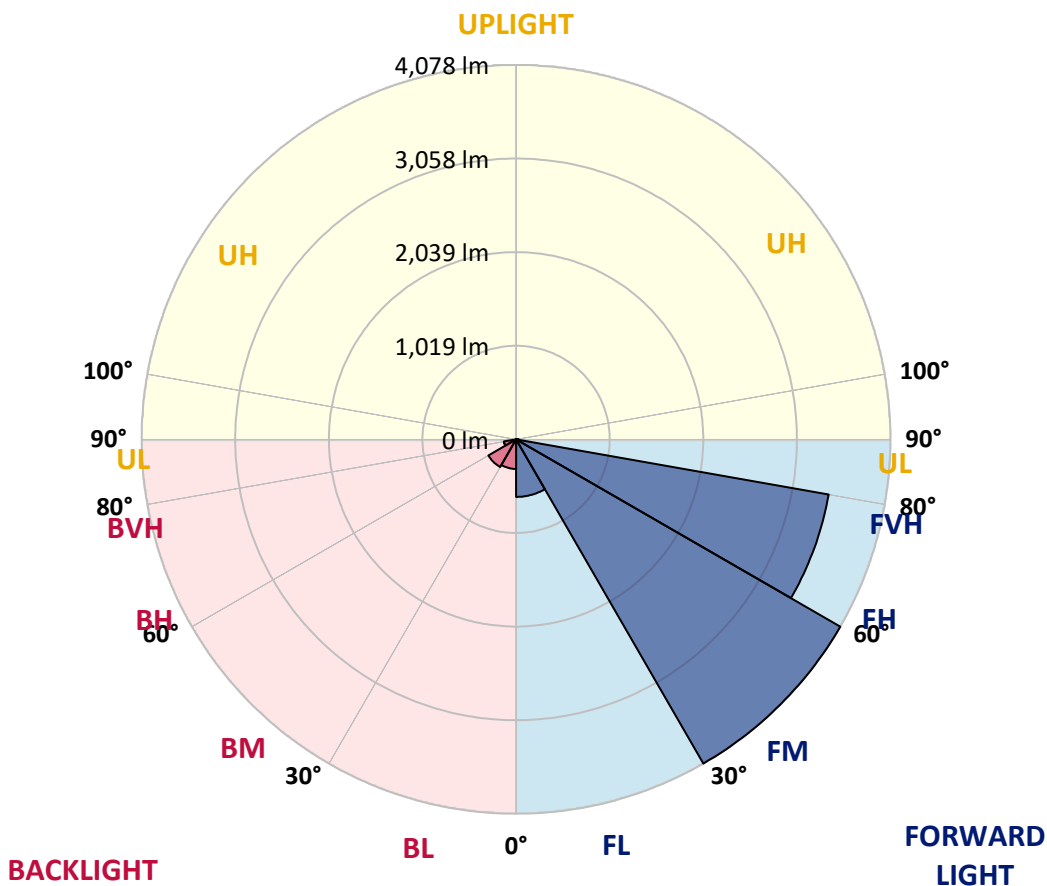
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.2	7.0			
FM (30°-60°)	4077.7	45.3			
FH (60°-80°)	3457.4	38.4			G2/5000
FVH (80°-90°)	30.3	0.3			G1/100
BL (0°-30°)	322.0	3.6	B1/500		
BM (30°-60°)	348.2	3.9	B1/1000		
BH (60°-80°)	134.8	1.5	B1/500		G1/500
BVH (80°-90°)	3.4	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0
2.5°	1510.9	1508.4	1510.1	1522.4	1545.5	1556.2	1574.4	1577.7	1592.5	1611.4	1618.9
5°	1412.8	1404.6	1408.7	1426.0	1452.4	1482.0	1515.8	1524.9	1562.0	1604.0	1635.4
7.5°	1323.0	1313.9	1323.8	1351.0	1388.1	1420.2	1470.5	1476.3	1535.6	1609.8	1666.7
10°	1182.0	1184.5	1204.3	1252.1	1308.9	1375.7	1443.3	1451.5	1524.9	1628.8	1717.0
12.5°	1074.0	1068.3	1089.7	1144.1	1224.0	1321.3	1422.7	1433.4	1525.7	1657.6	1781.2
15°	1023.7	1022.1	1031.2	1070.7	1148.2	1262.8	1403.7	1417.7	1536.4	1684.0	1842.2
17.5°	1025.4	1022.9	1022.1	1045.2	1102.9	1219.1	1383.1	1401.3	1545.5	1712.8	1906.5
20°	1097.1	1085.6	1065.0	1054.2	1088.9	1191.1	1369.1	1389.7	1558.7	1743.3	1975.0
22.5°	1247.1	1251.2	1196.0	1138.3	1121.8	1194.4	1367.5	1391.4	1587.5	1791.1	2059.0
25°	1547.2	1540.6	1438.4	1308.9	1219.1	1232.3	1396.3	1425.2	1644.4	1859.6	2138.2
27.5°	1923.0	1928.8	1788.7	1582.6	1394.7	1310.6	1449.1	1477.9	1710.4	1902.4	2190.9
30°	2332.7	2326.9	2176.9	1948.6	1643.6	1440.8	1501.8	1527.4	1743.3	1925.5	2245.3
32.5°	2720.1	2706.9	2558.5	2319.5	1960.9	1646.1	1574.4	1589.2	1787.0	1975.8	2318.7
35°	3050.6	3049.8	2920.4	2665.7	2287.4	1903.2	1698.8	1711.2	1868.6	2055.7	2426.7
37.5°	3391.9	3380.3	3235.3	3002.8	2622.8	2185.1	1889.2	1884.3	1997.2	2173.6	2559.4
40°	3672.1	3664.7	3553.4	3330.1	2971.5	2496.7	2120.0	2105.2	2149.7	2336.8	2744.0
42.5°	3879.8	3880.7	3846.0	3710.0	3340.8	2856.9	2410.2	2387.1	2386.3	2583.3	2988.0
45°	4037.3	4048.0	4099.9	4079.3	3776.8	3276.5	2781.9	2758.0	2717.6	2903.1	3267.4
47.5°	4110.6	4124.7	4281.3	4363.7	4158.4	3692.7	3224.5	3174.3	3095.1	3328.4	3579.8
50°	4103.2	4127.9	4346.4	4597.0	4504.6	4114.8	3706.7	3682.8	3553.4	3778.5	3888.9
52.5°	3935.1	3987.8	4350.5	4738.7	4770.9	4503.8	4205.4	4160.9	4098.3	4248.3	4179.1
55°	3478.4	3542.7	4176.6	4784.1	4978.6	4843.4	4693.4	4657.1	4553.3	4691.7	4432.1
57.5°	3230.3	3285.5	3810.6	4761.8	5155.0	5157.5	5127.8	5098.1	5012.4	5130.3	4728.8
60°	3081.1	3136.3	3615.3	4680.2	5314.9	5488.8	5535.8	5532.5	5408.9	5628.9	5076.7
62.5°	2862.7	2938.5	3411.7	4468.4	5428.6	5815.2	5957.0	5934.7	5797.1	6148.2	5421.2
65°	2421.7	2487.6	2994.6	4118.9	5361.9	6085.6	6413.6	6425.2	6266.1	6637.0	5693.2
67.5°	1698.0	1746.6	2250.3	3385.3	4908.5	6174.6	6881.0	6880.2	6609.0	6887.6	5572.9
70°	984.2	1050.9	1329.5	2092.8	3818.8	5769.9	6951.1	6975.0	6469.7	6364.2	4611.8
72.5°	380.8	436.0	753.4	1111.9	1991.4	4419.7	5979.3	6049.3	5414.6	4909.4	3209.7
75°	113.7	126.9	354.4	591.8	799.5	2134.9	4048.0	4067.8	3714.2	3062.2	1645.2
77.5°	84.9	94.0	155.0	299.2	280.3	647.1	2094.5	2287.4	1971.7	1093.8	453.3
80°	57.7	68.4	110.5	145.9	103.9	172.3	588.5	646.2	601.7	245.6	113.7
82.5°	25.6	33.0	78.3	73.4	37.9	49.5	181.3	192.9	124.5	74.2	39.6
85°	2.5	3.3	29.7	32.1	14.0	11.5	37.9	37.9	27.2	25.6	16.5
87.5°	0.0	0.0	0.8	1.6	1.6	2.5	3.3	4.1	4.9	6.6	8.2
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°	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0	1623.0
2.5°	1637.8	1627.9	1640.3	1650.2	1652.7	1634.5	1623.8	1608.2	1604.9	1605.7	1601.6
5°	1660.1	1655.1	1664.2	1653.5	1625.5	1572.7	1527.4	1477.1	1449.9	1434.2	1432.6
7.5°	1701.3	1698.8	1688.9	1640.3	1552.9	1435.9	1323.0	1212.5	1144.1	1119.4	1115.2
10°	1762.3	1757.3	1717.0	1601.6	1415.3	1190.2	1000.7	842.4	746.0	717.9	683.3
12.5°	1832.4	1822.5	1734.3	1518.3	1207.6	896.0	659.4	482.2	398.9	374.2	374.2
15°	1899.9	1878.5	1724.4	1380.7	952.0	582.8	368.4	278.6	253.1	246.5	246.5
17.5°	1969.2	1928.0	1685.6	1192.7	657.8	344.5	245.6	228.3	225.0	225.9	226.7
20°	2034.3	1970.0	1617.2	966.9	419.6	240.7	220.1	216.0	214.3	216.0	215.1
22.5°	2105.2	2008.7	1513.4	720.4	272.8	216.8	209.4	206.1	204.4	206.9	206.9
25°	2175.3	2036.8	1375.7	484.7	216.8	201.9	197.8	194.5	192.9	193.7	193.7
27.5°	2211.5	2026.1	1195.2	309.1	194.5	187.1	183.0	178.9	176.4	175.6	176.4
30°	2236.2	1993.1	974.3	220.1	176.4	167.3	163.2	159.9	153.3	149.2	150.8
32.5°	2275.0	1960.1	734.4	184.6	161.6	147.5	141.0	132.7	123.6	119.5	119.5
35°	2321.1	1914.8	515.2	166.5	145.9	131.1	118.7	104.7	94.0	90.7	90.7
37.5°	2382.1	1871.9	342.9	154.1	132.7	117.0	99.7	83.3	71.7	70.1	69.2
40°	2473.6	1835.7	241.5	145.1	121.2	102.2	81.6	64.3	56.1	53.6	53.6
42.5°	2592.3	1798.6	191.2	136.0	111.3	88.2	65.1	51.1	44.5	42.9	42.0
45°	2739.1	1754.9	166.5	127.8	101.4	73.4	51.9	42.9	37.9	36.3	36.3
47.5°	2898.1	1695.5	155.0	117.0	89.8	59.3	43.7	37.1	34.6	33.8	33.0
50°	3054.7	1615.6	145.1	107.2	76.7	48.6	37.9	33.8	32.1	31.3	31.3
52.5°	3191.6	1522.4	132.7	95.6	62.6	42.0	33.8	31.3	29.7	28.0	27.2
55°	3308.6	1421.0	117.0	82.4	51.1	37.1	31.3	28.8	27.2	25.6	24.7
57.5°	3459.5	1363.3	94.0	66.8	42.0	33.0	28.8	26.4	24.7	22.3	22.3
60°	3626.8	1321.3	70.1	52.8	36.3	30.5	26.4	23.9	22.3	19.8	19.8
62.5°	3761.1	1258.7	55.2	42.9	31.3	27.2	23.9	21.4	19.8	17.3	17.3
65°	3812.3	1129.3	45.3	33.8	25.6	23.9	21.4	19.8	17.3	14.8	14.8
67.5°	3581.5	870.4	37.9	27.2	21.4	20.6	19.0	18.1	14.8	13.2	12.4
70°	2836.3	530.8	31.3	22.3	18.1	17.3	17.3	15.7	13.2	12.4	11.5
72.5°	1943.6	273.7	25.6	18.1	15.7	15.7	14.8	14.0	12.4	11.5	11.5
75°	1009.7	91.5	19.8	14.0	12.4	13.2	13.2	12.4	11.5	11.5	10.7
77.5°	289.3	41.2	14.8	10.7	9.9	9.9	10.7	10.7	10.7	9.9	9.9
80°	75.0	23.9	10.7	8.2	8.2	8.2	8.2	9.1	9.9	9.1	9.1
82.5°	30.5	13.2	7.4	6.6	6.6	6.6	6.6	7.4	8.2	8.2	8.2
85°	19.0	6.6	5.8	5.8	5.8	4.9	4.9	5.8	5.8	6.6	6.6
87.5°	11.5	4.9	4.9	4.9	4.9	4.1	4.1	4.1	4.1	4.1	4.1
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)