

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: P636852

Luminaire Tested: GWS-SA4B-750-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636852  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

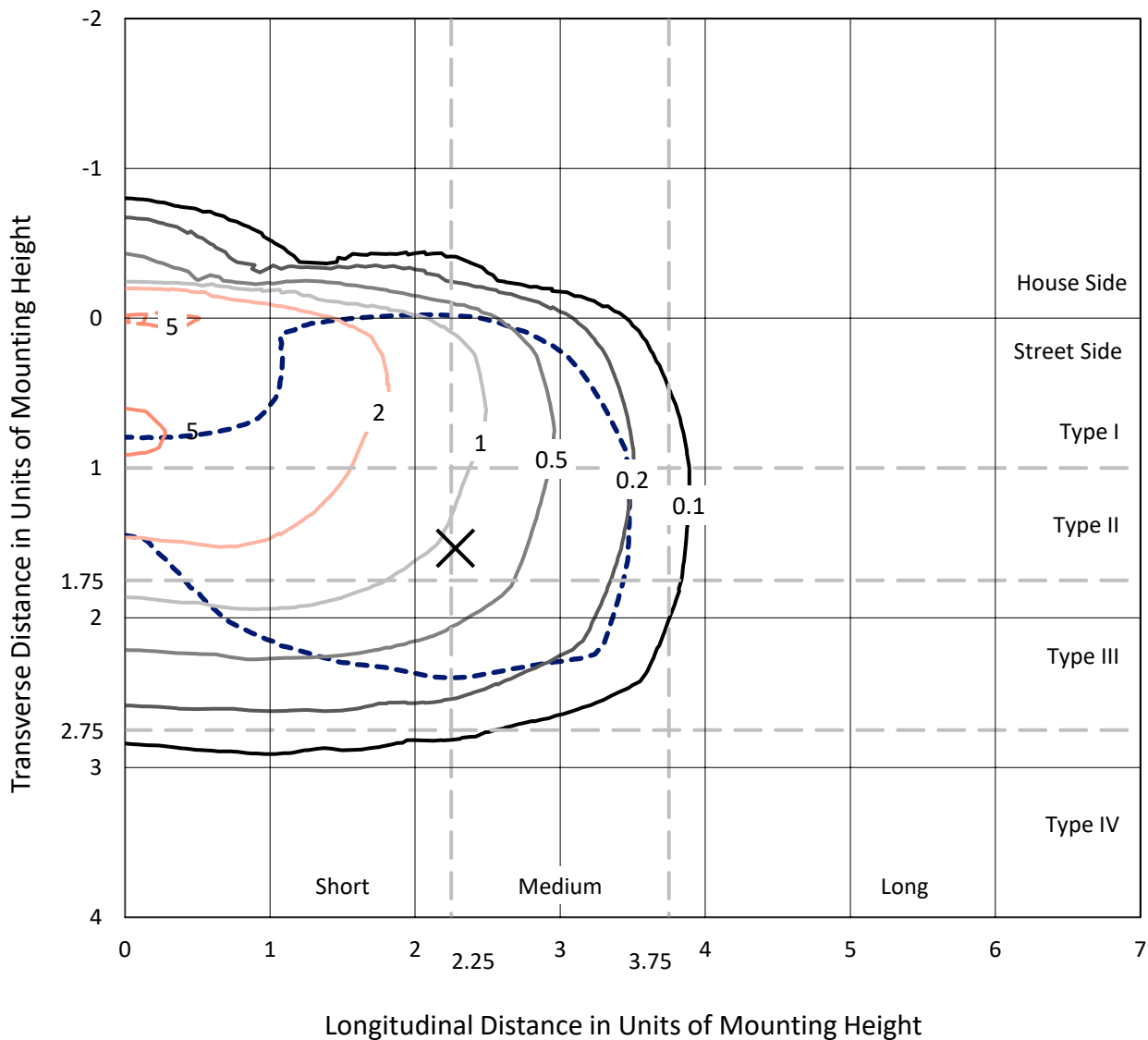
Lumens per Lamp: N/A  
Luminaire Lumens: 11590.5 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): 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

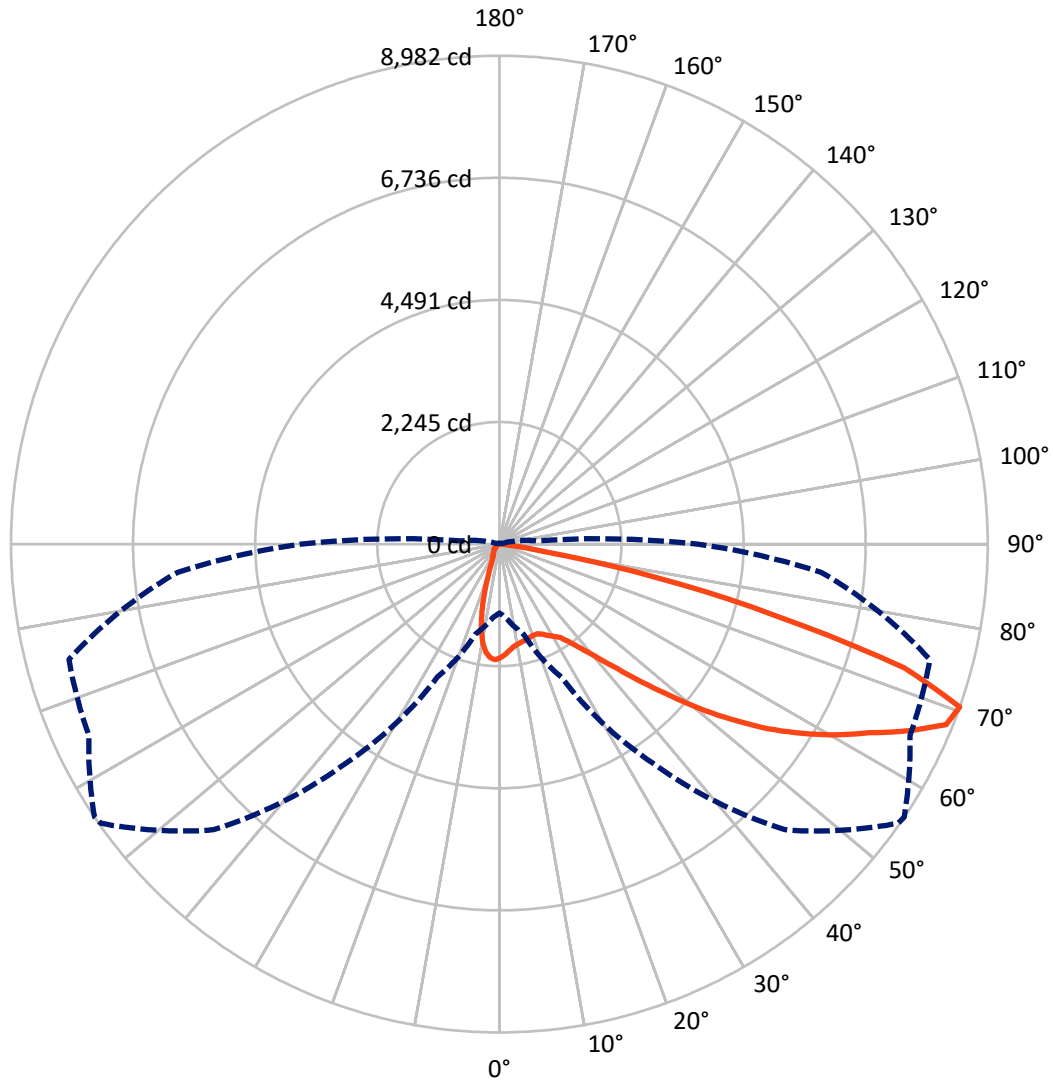
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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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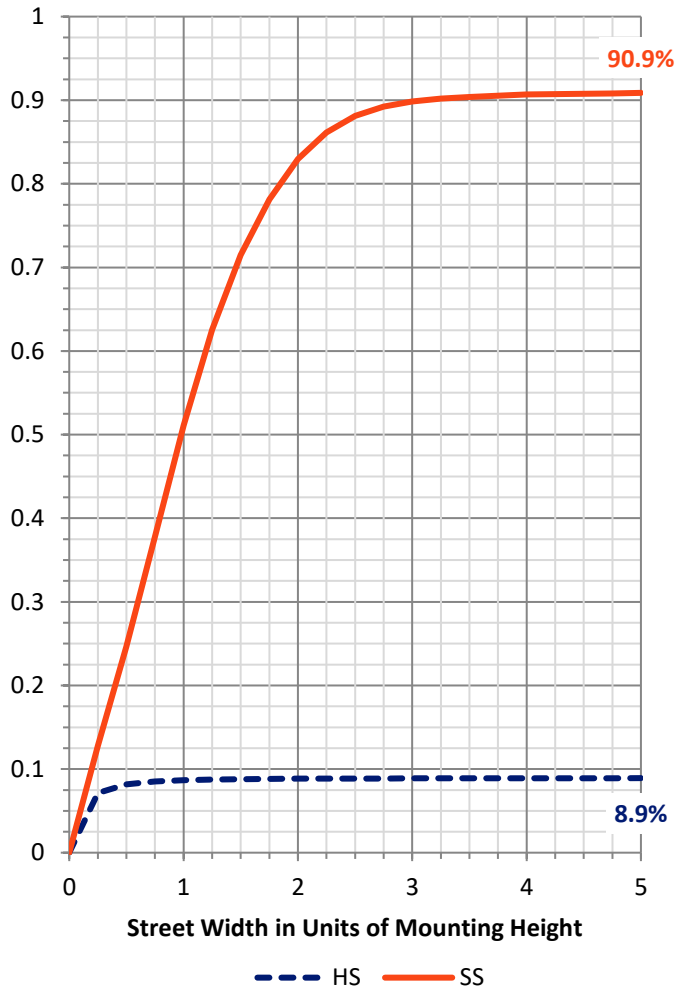
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1041.0	0.0	1041.0
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	10549.5	0.0	10549.5
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	11590.5	0.0	11590.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	1.5
10°-20°	403.6	3.5
20°-30°	639.3	5.5
30°-40°	1102.4	9.5
40°-50°	1861.6	16.1
50°-60°	2735.2	23.6
60°-70°	3242.8	28.0
70°-80°	1382.9	11.9
80°-90°	43.4	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°	11590.5	100.0
0°-180°	11590.5	100.0

**Coefficient of Utilization**



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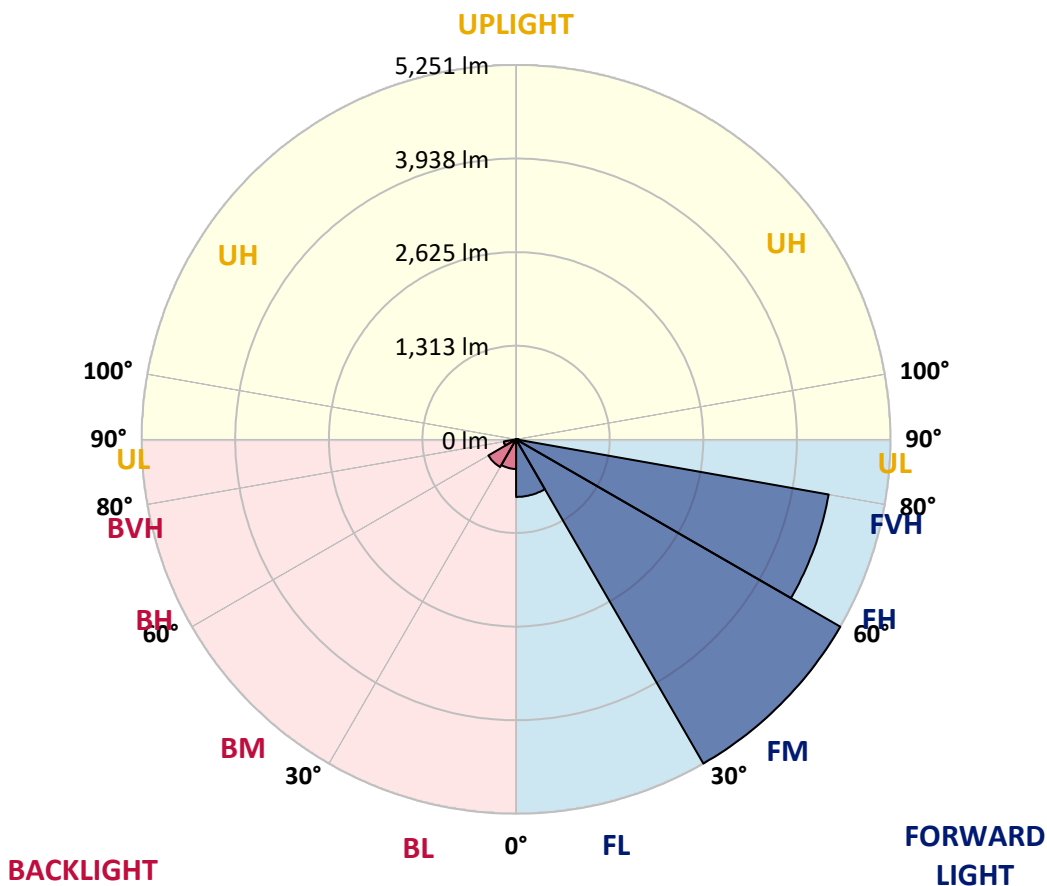
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.6	7.0			
FM (30°-60°)	5250.8	45.3			
FH (60°-80°)	4452.0	38.4			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	414.6	3.6	B1/500		
BM (30°-60°)	448.4	3.9	B1/1000		
BH (60°-80°)	173.6	1.5	B1/500		G1/500
BVH (80°-90°)	4.4	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°	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	1945.5	1942.4	1944.5	1960.4	1990.1	2003.9	2027.3	2031.5	2050.6	2075.0	2084.6
5°	1819.2	1808.6	1813.9	1836.2	1870.2	1908.4	1951.9	1963.6	2011.3	2065.5	2105.8
7.5°	1703.5	1691.9	1704.6	1739.6	1787.4	1828.8	1893.5	1901.0	1977.4	2072.9	2146.1
10°	1522.0	1525.2	1550.7	1612.3	1685.5	1771.5	1858.5	1869.1	1963.6	2097.3	2210.9
12.5°	1383.0	1375.6	1403.2	1473.2	1576.2	1701.4	1832.0	1845.8	1964.6	2134.5	2293.7
15°	1318.3	1316.1	1327.8	1378.8	1478.5	1626.1	1807.6	1825.6	1978.4	2168.4	2372.2
17.5°	1320.4	1317.2	1316.1	1345.8	1420.1	1569.8	1781.0	1804.4	1990.1	2205.6	2455.0
20°	1412.7	1397.9	1371.3	1357.5	1402.1	1533.7	1763.0	1789.5	2007.1	2244.8	2543.1
22.5°	1605.9	1611.2	1540.1	1465.8	1444.6	1538.0	1760.9	1791.6	2044.2	2306.4	2651.4
25°	1992.2	1983.7	1852.1	1685.5	1569.8	1586.8	1798.0	1835.1	2117.5	2394.5	2753.3
27.5°	2476.2	2483.7	2303.2	2037.9	1795.9	1687.6	1865.9	1903.1	2202.4	2449.7	2821.2
30°	3003.7	2996.3	2803.1	2509.1	2116.4	1855.3	1933.9	1966.8	2244.8	2479.4	2891.2
32.5°	3502.6	3485.6	3294.6	2986.8	2525.1	2119.6	2027.3	2046.4	2301.1	2544.2	2985.7
35°	3928.2	3927.2	3760.5	3432.5	2945.4	2450.8	2187.5	2203.5	2406.2	2647.1	3124.7
37.5°	4367.6	4352.8	4166.0	3866.7	3377.4	2813.8	2432.7	2426.3	2571.8	2798.9	3295.6
40°	4728.5	4719.0	4575.7	4288.0	3826.3	3215.0	2729.9	2710.8	2768.1	3009.1	3533.4
42.5°	4996.0	4997.0	4952.5	4777.3	4301.8	3678.8	3103.5	3073.8	3072.7	3326.4	3847.6
45°	5198.7	5212.5	5279.4	5252.8	4863.3	4219.0	3582.2	3551.4	3499.4	3738.2	4207.4
47.5°	5293.2	5311.2	5512.9	5619.0	5354.7	4755.0	4152.2	4087.4	3985.5	4285.9	4609.6
50°	5283.6	5315.5	5596.7	5919.4	5800.5	5298.5	4773.1	4742.3	4575.7	4865.4	5007.7
52.5°	5067.1	5135.0	5602.0	6102.0	6143.3	5799.5	5415.2	5357.9	5277.2	5470.4	5381.3
55°	4479.1	4561.9	5378.1	6160.3	6410.8	6236.7	6043.6	5996.9	5863.1	6041.5	5707.1
57.5°	4159.6	4230.7	4906.8	6131.7	6638.0	6641.1	6602.9	6564.7	6454.3	6606.1	6089.2
60°	3967.5	4038.6	4655.3	6026.6	6843.9	7067.8	7128.3	7124.1	6964.9	7248.3	6537.1
62.5°	3686.2	3783.9	4393.1	5753.8	6990.3	7488.1	7670.7	7642.0	7464.8	7916.9	6980.8
65°	3118.4	3203.3	3856.0	5303.8	6904.4	7836.3	8258.7	8273.6	8068.7	8546.3	7331.0
67.5°	2186.5	2249.1	2897.6	4359.1	6320.6	7950.9	8860.5	8859.5	8510.3	8869.0	7176.1
70°	1267.3	1353.3	1712.0	2694.9	4917.4	7429.8	8950.7	8981.5	8330.9	8195.0	5938.5
72.5°	490.4	561.5	970.1	1431.8	2564.3	5691.2	7699.3	7789.6	6972.3	6321.7	4133.1
75°	146.5	163.5	456.4	762.1	1029.6	2749.0	5212.5	5238.0	4782.6	3943.1	2118.5
77.5°	109.3	121.0	199.5	385.3	360.9	833.2	2697.0	2945.4	2538.9	1408.5	583.8
80°	74.3	88.1	142.2	187.9	133.7	221.8	757.8	832.1	774.8	316.3	146.5
82.5°	32.9	42.5	100.8	94.5	48.8	63.7	233.5	248.4	160.3	95.5	50.9
85°	3.2	4.2	38.2	41.4	18.0	14.9	48.8	48.8	35.0	32.9	21.2
87.5°	0.0	0.0	1.1	2.1	2.1	3.2	4.2	5.3	6.4	8.5	10.6
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°	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2109.0	2096.3	2112.2	2124.9	2128.1	2104.7	2090.9	2070.8	2066.5	2067.6	2062.3
5°	2137.6	2131.3	2143.0	2129.2	2093.1	2025.1	1966.8	1902.0	1867.0	1846.8	1844.7
7.5°	2190.7	2187.5	2174.8	2112.2	1999.7	1848.9	1703.5	1561.3	1473.2	1441.4	1436.1
10°	2269.3	2262.9	2210.9	2062.3	1822.4	1532.7	1288.5	1084.7	960.6	924.5	879.9
12.5°	2359.5	2346.7	2233.2	1955.1	1554.9	1153.7	849.1	620.9	513.7	481.9	481.9
15°	2446.5	2418.9	2220.4	1777.8	1225.9	750.4	474.4	358.8	325.8	317.4	317.4
17.5°	2535.7	2482.6	2170.5	1535.8	847.0	443.7	316.3	294.0	289.8	290.8	291.9
20°	2619.5	2536.7	2082.5	1245.0	540.2	309.9	283.4	278.1	276.0	278.1	277.0
22.5°	2710.8	2586.6	1948.7	927.7	351.3	279.1	269.6	265.3	263.2	266.4	266.4
25°	2801.0	2622.7	1771.5	624.1	279.1	260.0	254.7	250.5	248.4	249.4	249.4
27.5°	2847.7	2608.9	1539.0	398.0	250.5	240.9	235.6	230.3	227.1	226.1	227.1
30°	2879.6	2566.4	1254.6	283.4	227.1	215.5	210.2	205.9	197.4	192.1	194.2
32.5°	2929.4	2524.0	945.7	237.8	208.0	190.0	181.5	170.9	159.2	153.9	153.9
35°	2988.9	2465.6	663.4	214.4	187.9	168.8	152.8	134.8	121.0	116.8	116.8
37.5°	3067.4	2410.4	441.5	198.5	170.9	150.7	128.4	107.2	92.3	90.2	89.2
40°	3185.2	2363.7	311.0	186.8	156.0	131.6	105.1	82.8	72.2	69.0	69.0
42.5°	3338.1	2316.0	246.2	175.1	143.3	113.6	83.9	65.8	57.3	55.2	54.1
45°	3527.0	2259.7	214.4	164.5	130.6	94.5	66.9	55.2	48.8	46.7	46.7
47.5°	3731.9	2183.3	199.5	150.7	115.7	76.4	56.3	47.8	44.6	43.5	42.5
50°	3933.5	2080.3	186.8	138.0	98.7	62.6	48.8	43.5	41.4	40.3	40.3
52.5°	4109.7	1960.4	170.9	123.1	80.7	54.1	43.5	40.3	38.2	36.1	35.0
55°	4260.4	1829.8	150.7	106.1	65.8	47.8	40.3	37.1	35.0	32.9	31.8
57.5°	4454.7	1755.5	121.0	86.0	54.1	42.5	37.1	34.0	31.8	28.7	28.7
60°	4670.1	1701.4	90.2	67.9	46.7	39.3	34.0	30.8	28.7	25.5	25.5
62.5°	4843.1	1620.7	71.1	55.2	40.3	35.0	30.8	27.6	25.5	22.3	22.3
65°	4908.9	1454.1	58.4	43.5	32.9	30.8	27.6	25.5	22.3	19.1	19.1
67.5°	4611.8	1120.8	48.8	35.0	27.6	26.5	24.4	23.4	19.1	17.0	15.9
70°	3652.3	683.5	40.3	28.7	23.4	22.3	22.3	20.2	17.0	15.9	14.9
72.5°	2502.8	352.4	32.9	23.4	20.2	20.2	19.1	18.0	15.9	14.9	14.9
75°	1300.2	117.8	25.5	18.0	15.9	17.0	17.0	15.9	14.9	14.9	13.8
77.5°	372.5	53.1	19.1	13.8	12.7	12.7	13.8	13.8	13.8	12.7	12.7
80°	96.6	30.8	13.8	10.6	10.6	10.6	10.6	11.7	12.7	11.7	11.7
82.5°	39.3	17.0	9.6	8.5	8.5	8.5	8.5	9.6	10.6	10.6	10.6
85°	24.4	8.5	7.4	7.4	7.4	6.4	6.4	7.4	7.4	8.5	8.5
87.5°	14.9	6.4	6.4	6.4	6.4	5.3	5.3	5.3	5.3	5.3	5.3
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)