

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: P632579

Luminaire Tested: GWS-SA2D-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632579  
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-SA2D-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

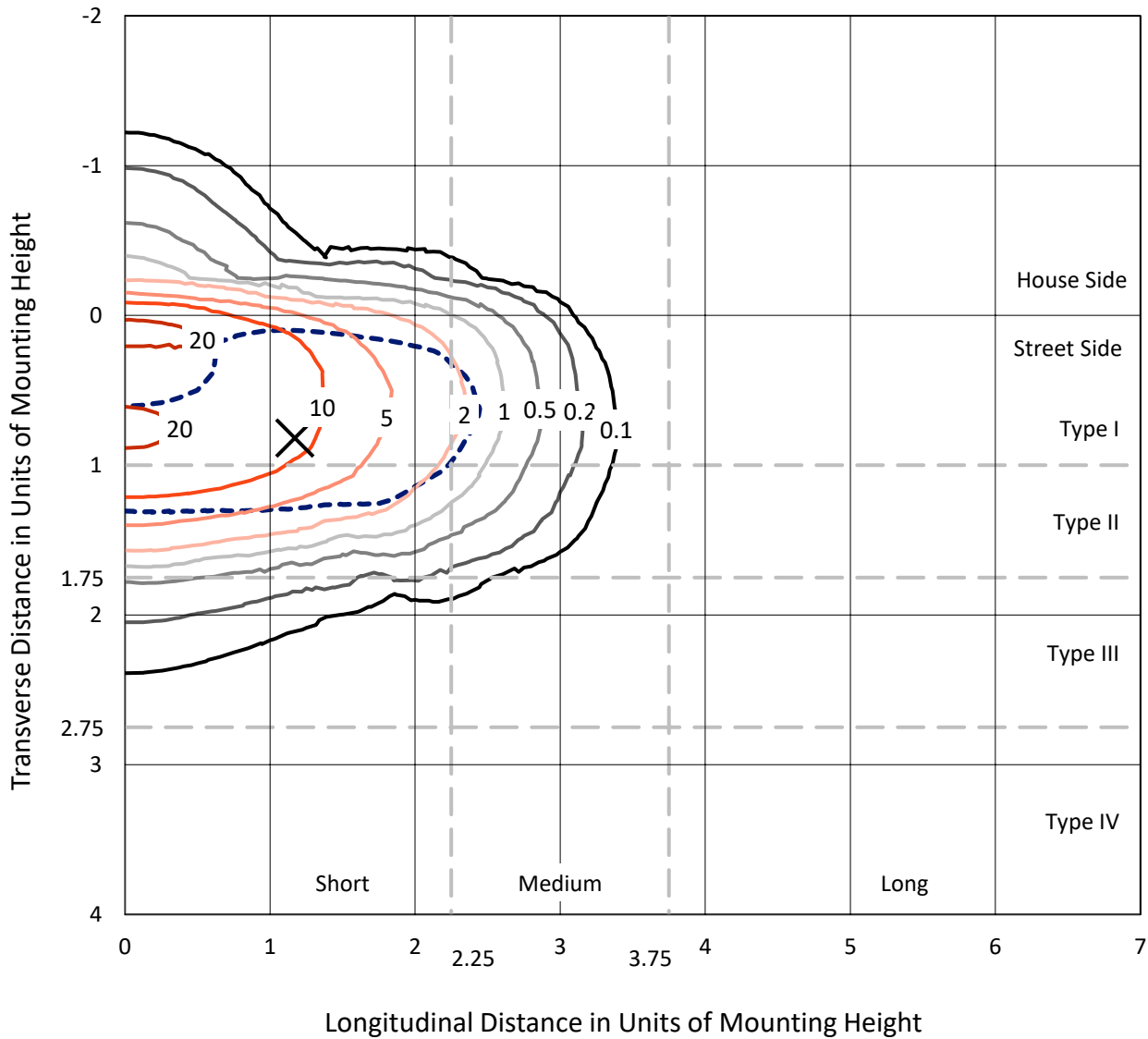
Lumens per Lamp: N/A  
Luminaire Lumens: 7212.4 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

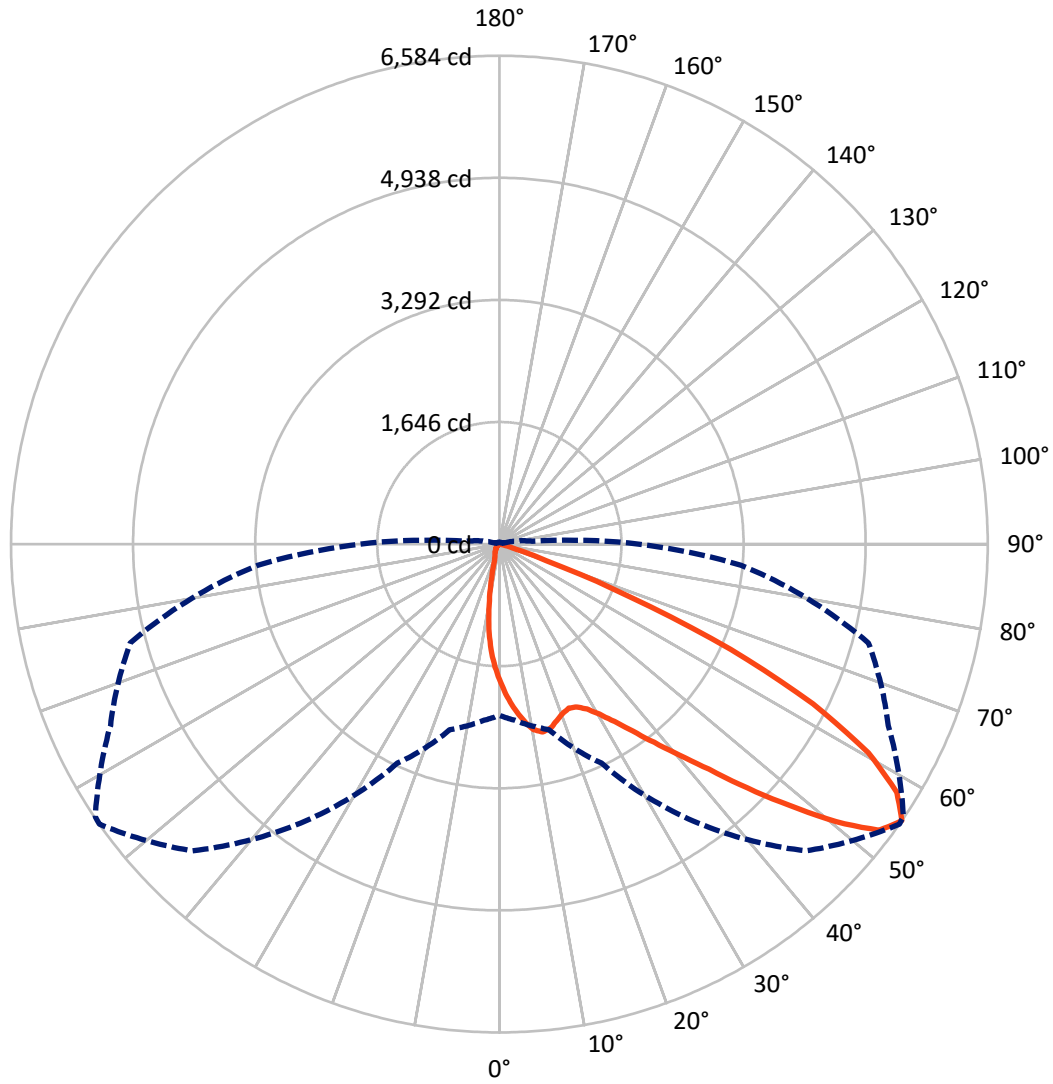
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.4 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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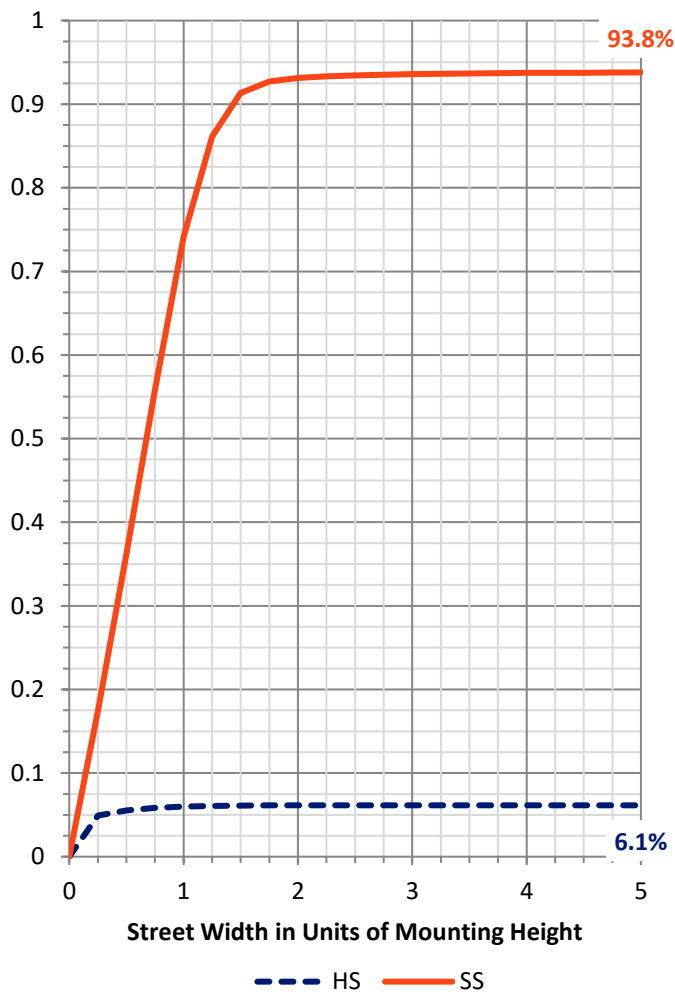
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	445.0	0.0	445.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6767.4	0.0	6767.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	7212.4	0.0	7212.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	2.3
10°-20°	397.0	5.5
20°-30°	661.1	9.2
30°-40°	1126.6	15.6
40°-50°	1839.1	25.5
50°-60°	1925.4	26.7
60°-70°	971.1	13.5
70°-80°	122.7	1.7
80°-90°	4.7	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°	7212.4	100.0
0°-180°	7212.4	100.0

**Coefficient of Utilization**



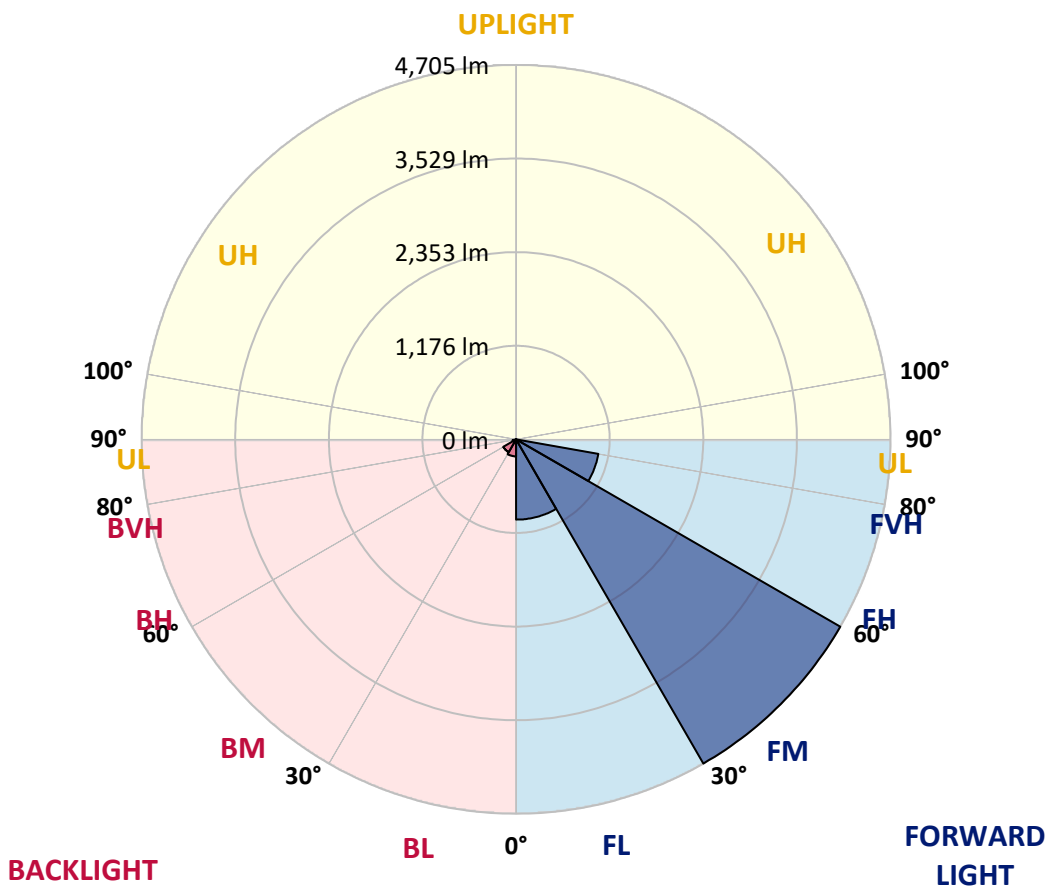
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.9	14.0			
FM (30°-60°)	4705.0	65.2			
FH (60°-80°)	1049.2	14.5			G1/1800
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	213.9	3.0	B1/500		
BM (30°-60°)	186.1	2.6	B0/220		
BH (60°-80°)	44.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	2172.2	2161.7	2177.7	2159.2	2127.8	2101.3	2066.7	2054.4	1998.9	1946.5	1895.9
5°	2436.1	2439.1	2434.2	2408.3	2363.9	2314.6	2244.9	2229.5	2132.7	2032.8	1924.9
7.5°	2501.4	2499.6	2510.0	2519.9	2512.5	2487.8	2412.0	2396.6	2276.4	2126.5	1969.3
10°	2299.8	2301.0	2322.6	2389.2	2471.8	2557.5	2545.8	2537.2	2419.4	2232.6	2018.6
12.5°	2014.9	2026.0	2048.8	2143.8	2283.8	2478.6	2599.4	2608.1	2550.7	2349.1	2076.6
15°	1891.6	1894.1	1912.6	1969.9	2074.1	2314.6	2576.6	2600.7	2660.5	2466.3	2139.5
17.5°	1888.5	1891.6	1899.6	1924.9	1992.7	2185.7	2503.3	2545.2	2743.1	2592.0	2214.7
20°	2004.5	2002.6	1997.1	1983.5	2013.1	2143.2	2435.4	2481.7	2788.1	2714.7	2290.5
22.5°	2214.7	2212.2	2187.6	2131.5	2107.4	2182.0	2402.1	2444.1	2815.2	2823.9	2352.8
25°	2457.0	2474.3	2428.0	2342.9	2283.8	2281.3	2431.7	2461.3	2838.7	2920.7	2395.4
27.5°	2722.8	2728.3	2688.8	2593.3	2507.6	2440.4	2517.4	2539.6	2864.6	3007.0	2419.4
30°	3014.4	3012.5	2967.5	2856.5	2752.3	2655.5	2661.7	2670.3	2925.0	3105.6	2445.9
32.5°	3378.8	3386.8	3306.6	3155.6	3030.4	2896.6	2850.4	2851.6	3034.1	3232.7	2486.0
35°	3873.9	3854.2	3748.1	3532.9	3319.6	3175.3	3096.4	3089.6	3202.4	3403.4	2555.7
37.5°	4345.6	4347.4	4236.4	3999.7	3730.2	3502.7	3391.1	3372.6	3439.2	3640.2	2671.6
40°	4673.0	4679.1	4632.9	4508.9	4223.5	3901.6	3737.6	3718.5	3746.3	3939.9	2823.3
42.5°	4846.2	4863.5	4876.4	4905.4	4689.0	4399.8	4147.6	4145.8	4116.8	4281.4	2999.0
45°	4853.0	4878.9	4957.8	5155.7	5180.4	4968.3	4693.9	4652.6	4541.0	4647.1	3156.2
47.5°	4584.8	4644.6	4812.3	5204.4	5463.4	5533.7	5261.8	5236.5	4923.3	4936.2	3274.0
50°	3959.6	4021.9	4330.8	4954.7	5534.9	5982.5	5885.1	5832.7	5242.7	5127.4	3330.7
52.5°	3318.4	3375.1	3584.7	4360.4	5238.3	6123.7	6410.4	6348.2	5529.4	5193.9	3307.3
55°	2309.0	2384.9	2589.6	3259.2	4555.2	5848.7	6584.3	6571.4	5785.2	5152.0	3270.9
57.5°	1132.0	1207.2	1411.3	2009.4	3374.5	5106.4	6318.6	6387.0	5938.1	5107.0	3241.3
60°	472.9	503.7	574.0	881.7	1887.9	3859.1	5718.6	5813.6	5844.4	5046.0	3238.2
62.5°	274.4	279.3	286.7	365.6	734.3	2212.2	4743.9	4878.9	5351.8	4965.2	3189.5
65°	207.2	209.0	205.9	224.4	303.4	839.1	3427.5	3611.2	4467.0	4649.5	2997.1
67.5°	170.2	170.2	162.2	165.9	190.5	314.4	1892.2	2148.7	3305.4	3821.5	2474.9
70°	135.6	138.7	135.0	130.1	136.3	173.9	673.3	834.8	1924.9	2256.6	1443.4
72.5°	103.0	103.0	109.1	105.4	101.1	109.1	234.9	263.9	772.6	940.9	521.0
75°	79.5	82.0	86.3	82.6	76.5	64.7	112.8	119.6	233.1	218.9	116.5
77.5°	40.7	41.3	54.9	60.4	56.7	39.5	49.3	54.3	75.8	67.8	43.2
80°	24.7	25.9	30.8	47.5	37.6	21.0	20.3	21.6	35.8	30.8	17.9
82.5°	10.5	11.1	17.3	17.3	15.4	8.0	8.0	8.0	17.3	16.0	7.4
85°	0.0	0.0	3.1	2.5	2.5	3.1	3.1	3.1	4.3	6.2	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.8
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°	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	1863.3	1823.8	1770.8	1722.7	1657.9	1621.6	1571.0	1529.7	1494.6	1483.5	1478.5
5°	1863.9	1796.1	1682.6	1569.2	1429.8	1320.1	1207.2	1117.8	1044.5	1021.0	1014.9
7.5°	1876.2	1776.3	1592.6	1386.7	1153.6	961.2	789.2	635.1	563.5	539.5	534.6
10°	1892.9	1759.7	1488.4	1167.8	833.0	585.7	414.9	316.3	269.4	243.5	247.2
12.5°	1914.4	1746.1	1373.1	931.0	551.2	321.8	228.1	191.1	181.3	176.3	173.9
15°	1943.4	1730.1	1230.0	696.1	337.9	207.2	175.7	165.9	162.2	159.7	159.1
17.5°	1973.0	1711.6	1084.5	489.6	224.4	172.0	157.8	152.9	150.4	148.6	148.0
20°	2004.5	1680.1	913.8	337.3	177.0	154.8	145.5	140.0	136.9	133.8	133.2
22.5°	2018.0	1629.6	750.4	236.1	157.2	142.4	130.7	123.9	120.2	117.8	117.8
25°	2005.1	1547.6	581.4	179.4	143.0	128.9	117.1	109.7	106.7	104.2	104.2
27.5°	1970.5	1442.1	424.2	148.6	127.6	114.7	103.6	96.8	94.3	93.1	93.1
30°	1932.3	1309.0	299.0	127.6	110.4	99.9	90.6	86.3	85.7	84.5	84.5
32.5°	1899.6	1184.4	205.9	112.2	97.4	86.9	80.8	78.9	79.5	78.3	78.9
35°	1881.8	1062.3	152.9	99.9	86.9	77.1	74.0	74.0	74.0	73.4	73.4
37.5°	1889.2	942.1	124.5	91.3	77.7	70.3	67.2	68.4	69.7	69.7	69.7
40°	1926.2	835.4	110.4	83.2	69.7	64.1	61.7	63.5	65.4	66.6	66.6
42.5°	1973.0	749.1	99.9	76.5	64.1	58.0	56.7	58.6	60.4	61.7	61.7
45°	2002.6	662.2	89.4	67.8	58.6	51.2	51.2	53.6	53.0	53.6	53.6
47.5°	2016.2	593.1	78.9	58.6	49.9	44.4	45.0	46.2	45.0	46.2	46.2
50°	1982.9	523.5	69.7	48.7	41.3	38.8	40.1	39.5	39.5	41.9	41.9
52.5°	1921.8	471.7	61.7	41.3	35.1	34.5	35.8	33.3	33.9	33.9	33.3
55°	1876.8	442.1	54.9	35.8	30.2	30.8	30.2	25.9	23.4	21.0	20.3
57.5°	1854.6	430.4	49.9	32.1	27.1	27.1	24.7	17.9	13.6	10.5	9.2
60°	1849.7	416.2	45.0	27.7	24.0	22.8	17.9	10.5	6.8	4.9	4.3
62.5°	1802.8	381.7	40.7	22.2	21.0	18.5	11.1	6.2	3.7	2.5	1.8
65°	1649.3	313.8	36.4	17.3	16.0	13.6	6.8	3.7	1.8	0.6	0.0
67.5°	1312.1	222.6	32.1	12.9	11.1	8.6	4.3	2.5	0.6	0.0	0.0
70°	756.5	120.2	26.5	9.2	7.4	5.5	3.1	1.2	0.0	0.0	0.0
72.5°	252.8	56.1	20.3	6.2	5.5	4.3	1.8	0.6	0.0	0.0	0.0
75°	55.5	33.3	13.6	4.3	3.7	3.1	1.2	0.0	0.0	0.0	0.0
77.5°	21.0	23.4	6.8	3.1	2.5	1.8	0.6	0.0	0.0	0.0	0.0
80°	8.0	15.4	3.1	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	6.2	1.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	3.1	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	0.6	0.6	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)