

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: P633307

Luminaire Tested: GWS-SA2E-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633307
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-SA2E-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11496.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

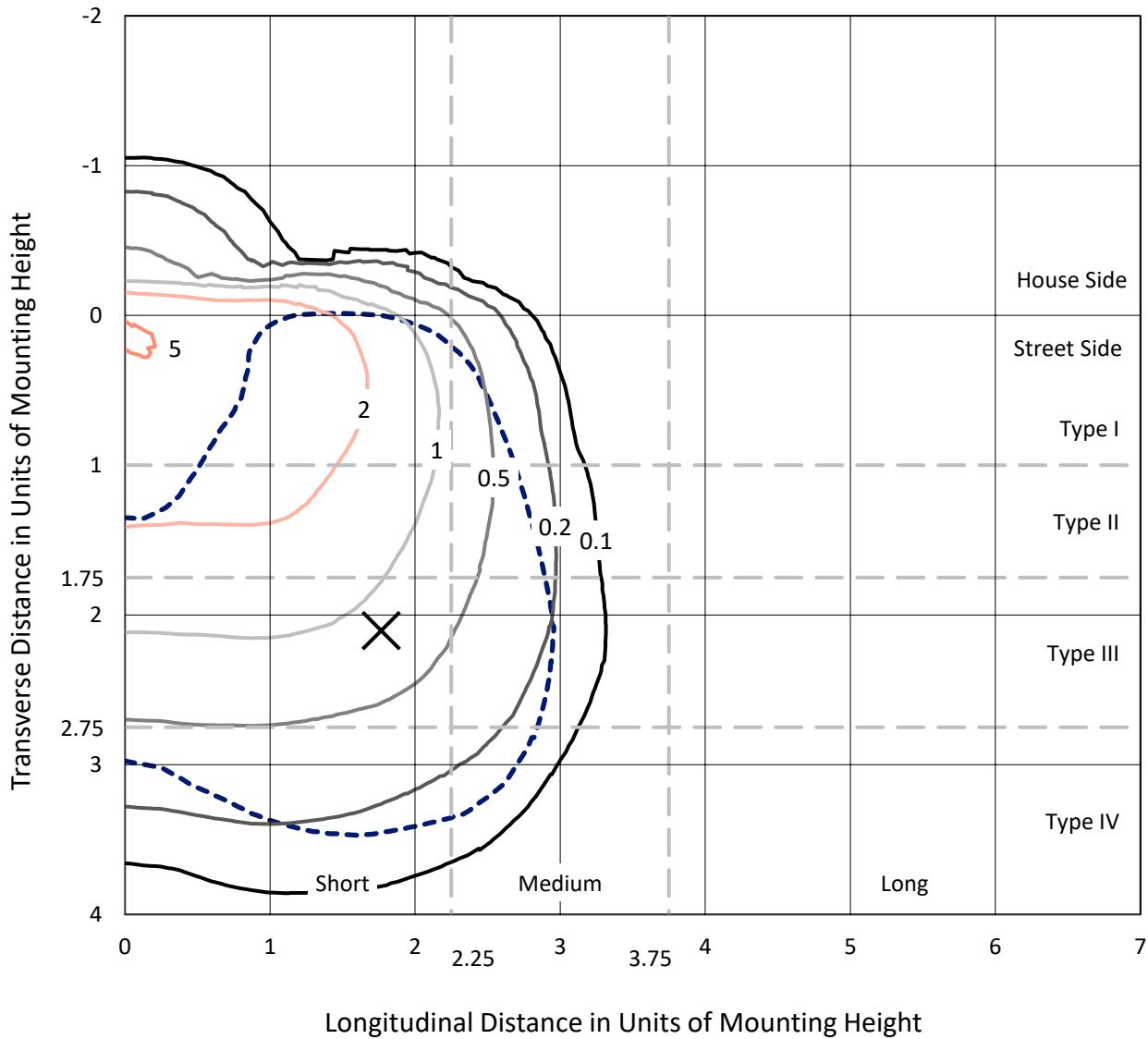
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

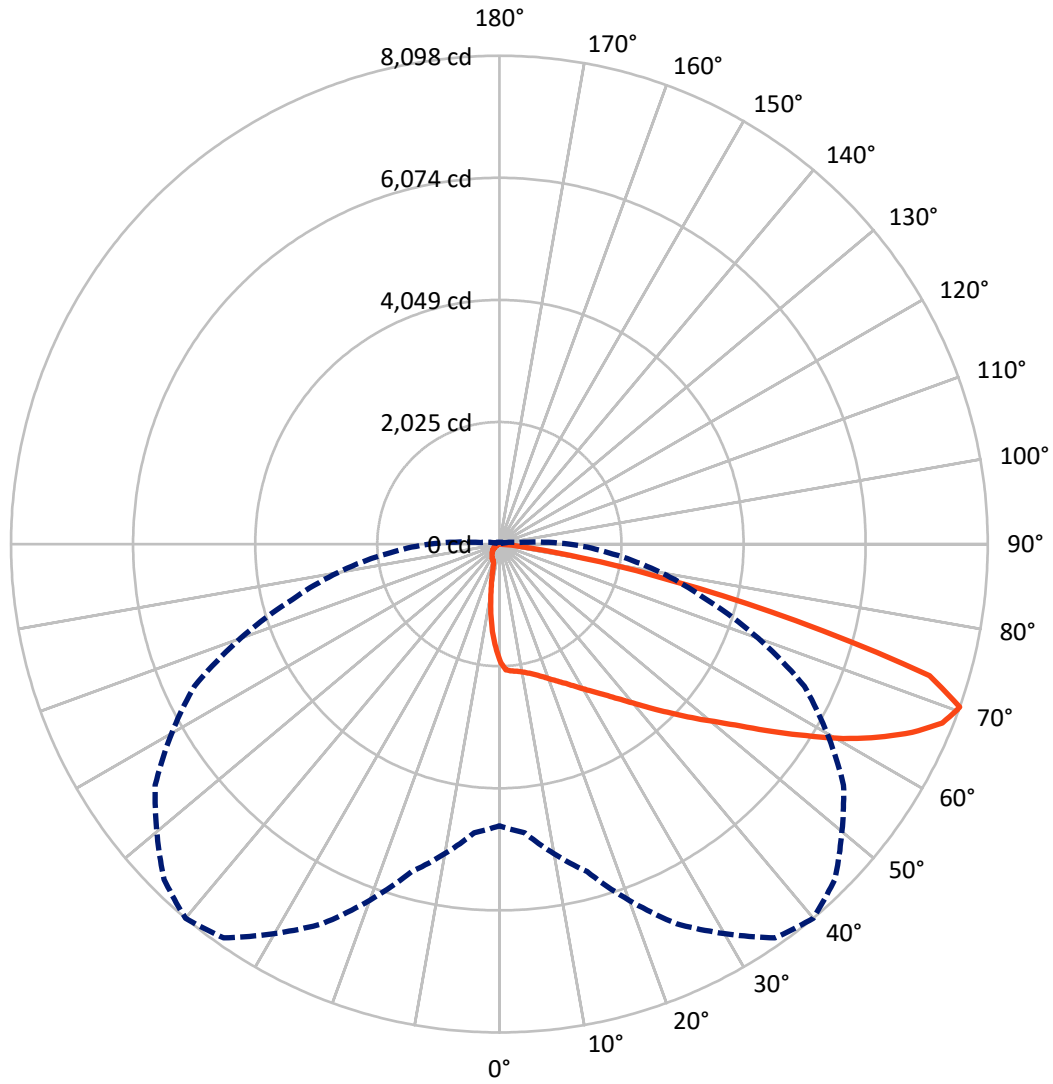
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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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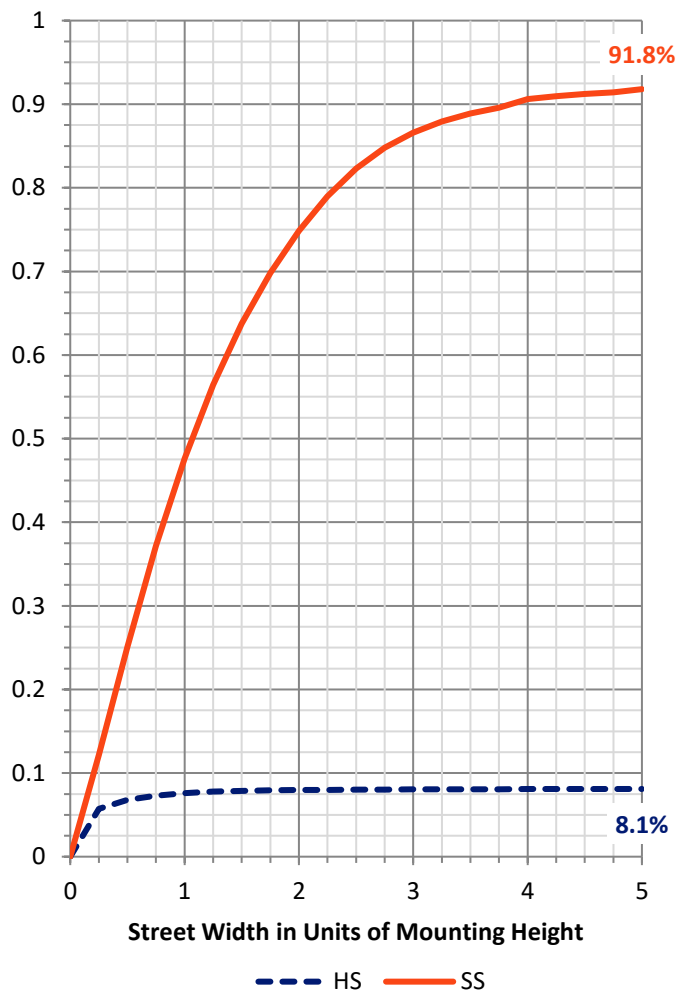
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.1	0.0	940.1
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10556.4	0.0	10556.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	11496.5	0.0	11496.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.4
10°-20°	418.2	3.6
20°-30°	699.9	6.1
30°-40°	1099.3	9.6
40°-50°	1738.8	15.1
50°-60°	2536.5	22.1
60°-70°	3144.3	27.4
70°-80°	1590.8	13.8
80°-90°	103.9	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°	11496.5	100.0
0°-180°	11496.5	100.0

Coefficient of Utilization



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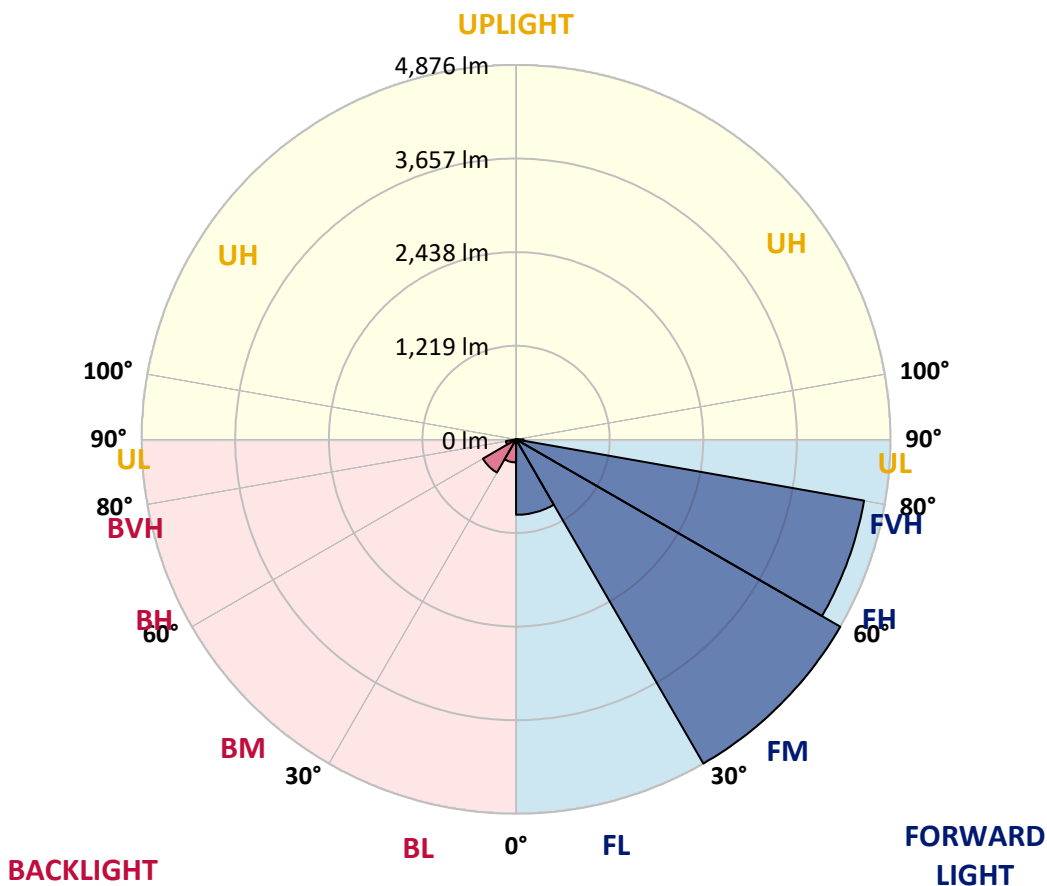
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.7	8.5			
FM (30°-60°)	4875.5	42.4			
FH (60°-80°)	4601.1	40.0			G2/5000
FVH (80°-90°)	97.0	0.8			G1/100
BL (0°-30°)	300.2	2.6	B1/500		
BM (30°-60°)	499.0	4.3	B1/1000		
BH (60°-80°)	134.0	1.2	B1/500		G1/500
BVH (80°-90°)	6.9	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°	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8
2.5°	2097.3	2104.6	2103.5	2106.7	2099.4	2087.8	2085.8	2070.1	2041.8	2006.3	1966.5
5°	2140.1	2148.5	2142.2	2139.1	2125.5	2113.0	2109.8	2093.1	2060.6	2012.5	1943.5
7.5°	2176.8	2178.8	2174.7	2167.3	2147.5	2130.7	2119.2	2096.2	2057.5	2009.4	1929.9
10°	2183.0	2182.0	2184.1	2185.1	2172.6	2157.9	2148.5	2117.1	2068.0	2016.7	1930.9
12.5°	2175.7	2175.7	2189.3	2205.0	2205.0	2197.7	2188.3	2160.0	2102.5	2041.8	1951.9
15°	2185.1	2188.3	2214.4	2243.7	2253.1	2245.8	2241.6	2212.3	2152.7	2085.8	1989.5
17.5°	2218.6	2221.7	2263.6	2307.5	2319.0	2310.6	2302.3	2273.0	2209.2	2136.0	2032.4
20°	2267.8	2276.1	2329.5	2386.0	2396.4	2386.0	2369.2	2328.4	2264.6	2190.4	2073.2
22.5°	2357.7	2362.9	2420.5	2480.1	2485.3	2468.6	2443.5	2387.0	2320.1	2247.9	2119.2
25°	2477.0	2484.3	2541.8	2599.3	2585.7	2560.6	2526.1	2462.3	2386.0	2315.9	2177.8
27.5°	2619.2	2627.6	2684.1	2734.3	2698.7	2669.4	2630.7	2551.2	2473.8	2410.0	2253.1
30°	2773.0	2780.3	2830.5	2875.5	2828.4	2793.9	2747.9	2666.3	2587.8	2539.7	2359.8
32.5°	2921.5	2920.5	2968.6	3005.2	2957.1	2929.9	2888.0	2805.4	2742.7	2721.7	2518.8
35°	3059.6	3059.6	3099.3	3136.0	3101.4	3086.8	3048.1	2982.2	2946.6	2971.7	2731.1
37.5°	3198.7	3191.4	3229.0	3269.8	3266.7	3267.8	3245.8	3214.4	3216.5	3305.4	3023.0
40°	3313.8	3310.6	3354.6	3407.9	3449.8	3483.2	3469.6	3481.1	3547.0	3713.4	3396.4
42.5°	3405.8	3413.1	3469.6	3554.4	3660.0	3728.0	3737.4	3784.5	3953.9	4211.3	3818.0
45°	3511.5	3512.5	3591.0	3720.7	3889.1	3996.8	4034.5	4155.8	4396.4	4728.0	4280.3
47.5°	3641.2	3628.6	3716.5	3898.5	4142.2	4301.2	4368.2	4519.8	4892.2	5232.2	4656.9
50°	3784.5	3761.5	3860.8	4108.7	4425.7	4624.4	4760.4	4982.2	5383.8	5646.4	4937.2
52.5°	3950.8	3928.8	4041.8	4350.4	4765.6	5007.3	5182.0	5405.8	5805.4	5962.3	5104.6
55°	4162.1	4140.1	4259.4	4640.1	5167.3	5481.1	5664.2	5852.5	6197.6	6195.5	5225.9
57.5°	4396.4	4366.1	4531.3	5006.2	5668.4	5994.7	6180.9	6273.0	6495.8	6376.5	5307.5
60°	4665.2	4638.0	4867.1	5442.4	6246.8	6549.1	6666.3	6628.6	6740.5	6483.2	5279.2
62.5°	4907.9	4895.4	5179.9	5904.8	6798.1	7053.3	7085.7	6921.5	6920.4	6485.3	5088.9
65°	5160.0	5184.1	5606.6	6437.2	7352.4	7524.0	7468.5	7212.3	6992.6	6229.0	4526.1
67.5°	5254.1	5324.2	5888.0	6918.3	7789.7	7923.6	7826.3	7357.7	6692.4	5367.1	3446.6
70°	4672.5	4804.3	5622.3	6945.5	7970.6	8098.2	7865.0	6966.5	5579.4	3555.4	1888.1
72.5°	3553.3	3707.1	4685.1	5687.2	7168.3	7459.1	7060.6	5675.7	3596.2	1557.5	633.9
75°	1988.5	2154.8	3489.5	4282.4	4812.7	5078.4	4932.0	3641.2	1593.1	406.9	189.3
77.5°	672.6	728.0	1623.4	2649.6	3176.7	2938.3	2487.4	1808.6	585.8	154.8	100.4
80°	398.5	419.5	604.6	1319.0	1671.5	1386.0	1094.1	668.4	298.1	82.6	70.1
82.5°	119.2	141.2	333.7	489.5	654.8	407.9	345.2	381.8	154.8	45.0	58.6
85°	0.0	0.0	71.1	151.7	171.5	66.9	66.9	216.5	28.2	18.8	42.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.2	3.1	4.2	9.4
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°	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8	1950.8
2.5°	1938.3	1901.7	1858.8	1818.0	1779.3	1729.1	1705.0	1675.7	1650.6	1637.0	1644.3
5°	1899.6	1842.0	1754.2	1665.3	1575.3	1490.6	1414.2	1363.0	1316.9	1292.9	1298.1
7.5°	1866.1	1788.7	1651.7	1506.3	1361.9	1216.5	1098.3	1006.3	935.1	905.8	900.6
10°	1851.4	1754.2	1560.7	1351.5	1129.7	934.1	766.7	665.3	593.1	557.5	563.8
12.5°	1858.8	1736.4	1483.2	1199.8	912.1	684.1	524.1	428.9	377.6	356.7	351.5
15°	1879.7	1732.2	1414.2	1045.0	704.0	478.0	361.9	323.2	312.8	310.7	310.7
17.5°	1903.7	1733.2	1343.1	888.1	534.5	354.6	309.6	302.3	299.2	297.1	298.1
20°	1927.8	1733.2	1261.5	729.1	401.7	306.5	295.0	289.7	286.6	285.6	285.6
22.5°	1957.1	1733.2	1170.5	581.6	322.2	290.8	281.4	278.2	275.1	274.1	273.0
25°	1992.7	1734.3	1070.1	455.0	292.9	277.2	269.9	266.7	263.6	261.5	261.5
27.5°	2043.9	1742.7	959.2	354.6	276.1	264.6	258.4	255.2	252.1	249.0	249.0
30°	2118.2	1763.6	834.7	292.9	260.5	251.0	244.8	242.7	239.5	236.4	235.4
32.5°	2229.1	1800.2	706.1	262.5	245.8	236.4	229.1	227.0	223.8	220.7	219.7
35°	2383.9	1867.1	580.5	243.7	227.0	217.6	213.4	212.3	208.2	205.0	205.0
37.5°	2610.9	1975.9	460.2	224.9	211.3	204.0	198.7	196.7	192.5	189.3	188.3
40°	2888.0	2117.1	357.7	210.2	196.7	189.3	184.1	181.0	175.7	171.5	169.5
42.5°	3241.6	2289.7	282.4	194.6	183.1	175.7	171.5	165.3	157.9	151.7	150.6
45°	3609.8	2467.5	233.3	179.9	170.5	164.2	159.0	150.6	140.2	132.8	130.8
47.5°	3892.2	2578.4	204.0	164.2	156.9	151.7	145.4	134.9	122.4	114.0	111.9
50°	4094.1	2595.2	182.0	149.6	145.4	140.2	130.8	118.2	104.6	96.2	94.1
52.5°	4193.5	2519.9	164.2	136.0	132.8	127.6	116.1	102.5	87.9	79.5	77.4
55°	4238.5	2377.6	147.5	124.5	120.3	114.0	101.5	86.8	72.2	64.9	62.8
57.5°	4220.7	2167.3	132.8	113.0	107.7	100.4	86.8	71.1	59.6	52.3	51.3
60°	4088.9	1872.4	118.2	101.5	95.2	86.8	73.2	58.6	48.1	42.9	41.8
62.5°	3804.4	1506.3	103.6	87.9	83.7	75.3	62.8	48.1	39.7	36.6	35.6
65°	3221.7	1064.8	88.9	74.3	72.2	63.8	52.3	39.7	34.5	32.4	31.4
67.5°	2315.9	647.5	75.3	63.8	61.7	54.4	43.9	34.5	31.4	30.3	30.3
70°	1164.2	306.5	59.6	52.3	52.3	45.0	37.7	31.4	30.3	29.3	29.3
72.5°	395.4	130.8	45.0	40.8	42.9	38.7	32.4	29.3	29.3	29.3	29.3
75°	134.9	69.0	31.4	29.3	31.4	31.4	28.2	28.2	29.3	29.3	29.3
77.5°	87.9	46.0	22.0	19.9	24.1	24.1	24.1	26.2	28.2	28.2	28.2
80°	72.2	25.1	14.6	13.6	17.8	17.8	19.9	24.1	26.2	26.2	26.2
82.5°	61.7	15.7	8.4	9.4	12.6	13.6	16.7	19.9	23.0	24.1	24.1
85°	41.8	8.4	6.3	7.3	8.4	10.5	13.6	16.7	18.8	20.9	20.9
87.5°	11.5	3.1	4.2	5.2	5.2	7.3	10.5	12.6	14.6	15.7	15.7
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)