

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: P632774

Luminaire Tested: GWS-SA2D-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

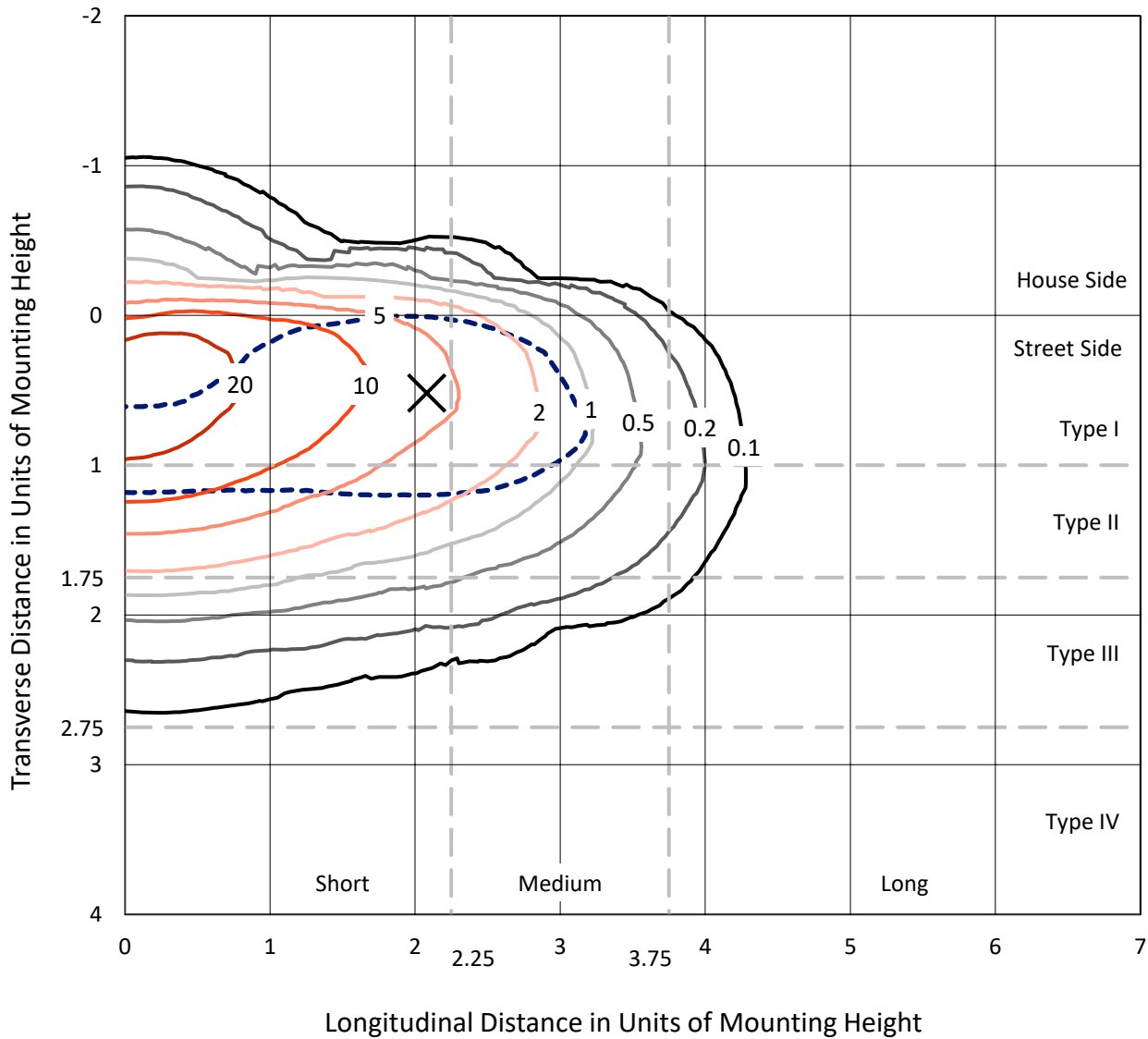
Lumens per Lamp: N/A  
Luminaire Lumens: 9287.5 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

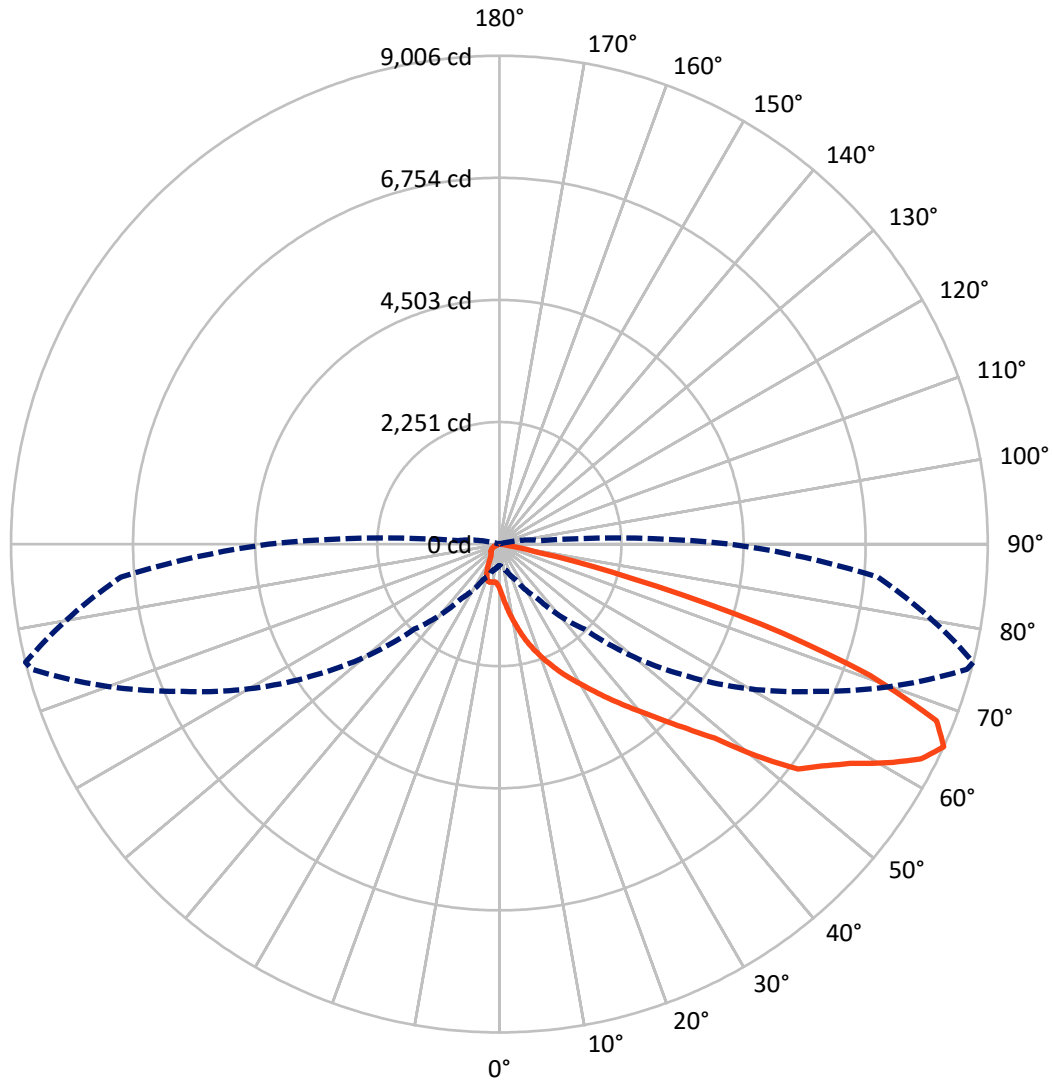
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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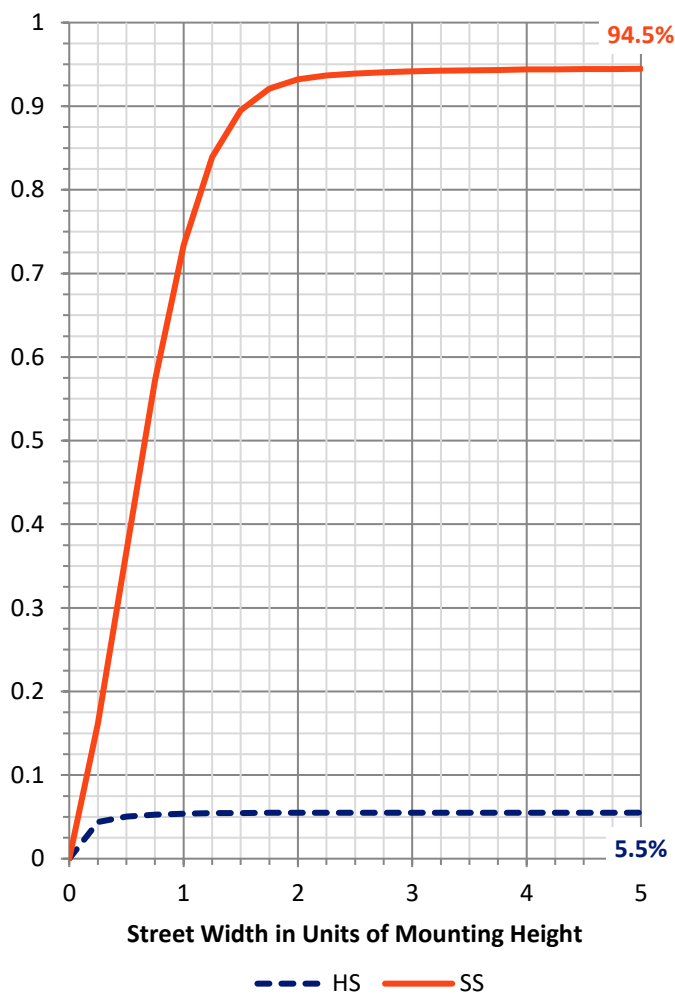
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	513.6	0.0	513.6
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	8774.0	0.0	8774.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	9287.5	0.0	9287.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	1.1
10°-20°	379.6	4.1
20°-30°	774.4	8.3
30°-40°	1377.3	14.8
40°-50°	2036.0	21.9
50°-60°	2331.0	25.1
60°-70°	1778.5	19.1
70°-80°	498.2	5.4
80°-90°	12.5	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°	9287.5	100.0
0°-180°	9287.5	100.0

**Coefficient of Utilization**



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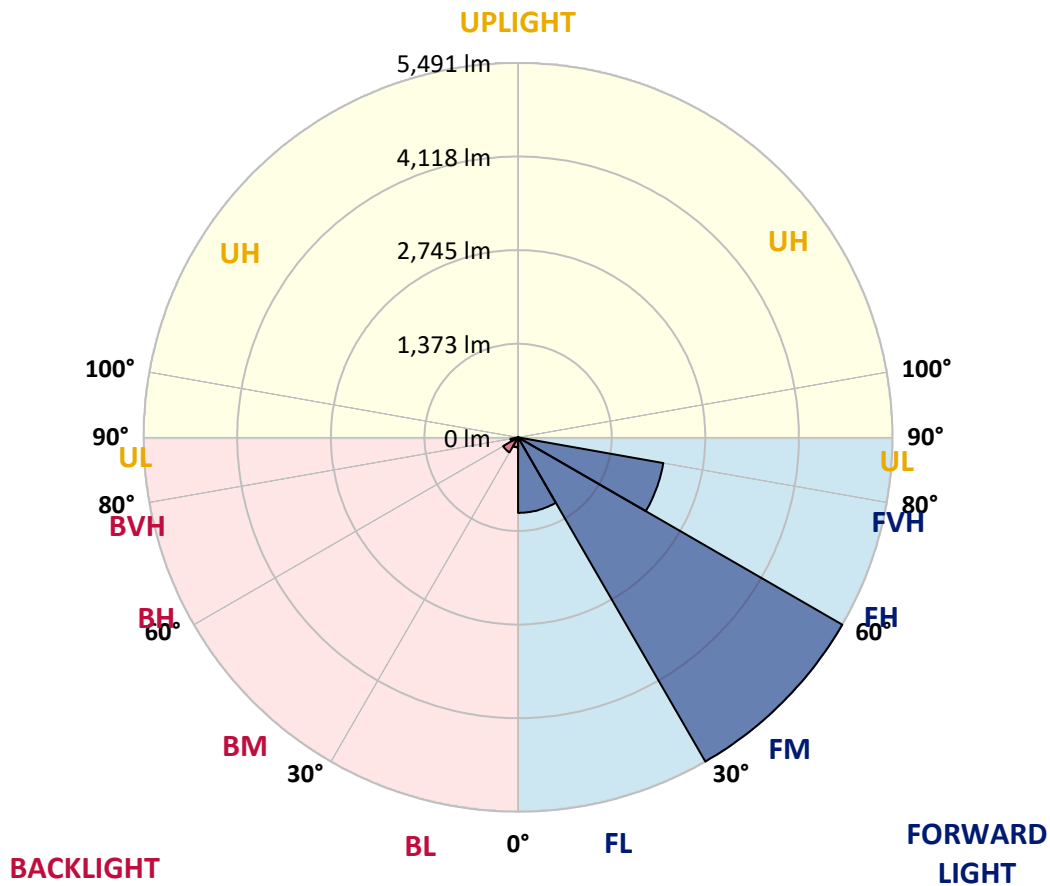
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.5	11.9			
FM (30°-60°)	5490.9	59.1			
FH (60°-80°)	2163.8	23.3			G2/5000
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	146.5	1.6	B1/500		
BM (30°-60°)	253.4	2.7	B1/1000		
BH (60°-80°)	112.9	1.2	B1/500		G1/500
BVH (80°-90°)	0.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3
2.5°	1267.3	1286.3	1271.4	1246.6	1198.7	1152.5	1093.1	1011.3	946.1	937.9	876.8
5°	1711.4	1709.8	1677.6	1645.4	1595.0	1515.8	1396.1	1244.2	1098.0	1085.6	948.6
7.5°	1975.6	1978.1	1959.9	1935.2	1885.6	1803.9	1679.2	1496.0	1282.1	1257.4	1046.8
10°	2197.7	2196.9	2183.7	2172.1	2127.5	2073.0	1939.3	1737.9	1480.3	1441.5	1156.6
12.5°	2364.5	2370.3	2376.9	2388.4	2369.4	2315.8	2189.5	1969.8	1680.9	1638.0	1282.1
15°	2496.6	2498.2	2523.0	2567.6	2583.3	2555.2	2440.4	2194.4	1879.0	1841.9	1426.6
17.5°	2536.2	2539.5	2581.6	2663.3	2745.9	2761.6	2674.9	2420.6	2073.9	2034.2	1567.0
20°	2619.6	2627.0	2658.4	2730.2	2834.2	2918.4	2884.6	2649.3	2268.7	2216.7	1710.6
22.5°	2882.1	2886.2	2875.5	2884.6	2938.3	3035.7	3056.3	2870.6	2468.5	2413.2	1865.8
25°	3333.7	3335.4	3260.2	3189.2	3148.8	3166.9	3212.4	3074.5	2666.6	2612.2	2010.3
27.5°	3802.6	3808.4	3718.4	3597.9	3453.4	3370.9	3357.7	3261.1	2866.4	2806.2	2153.1
30°	4244.3	4244.3	4149.4	4002.4	3809.2	3648.3	3553.3	3449.3	3080.3	3014.2	2299.3
32.5°	4641.4	4638.1	4516.8	4357.4	4166.7	3990.1	3790.3	3645.8	3318.0	3244.5	2467.7
35°	4969.2	4960.9	4823.1	4670.3	4466.4	4335.1	4112.2	3857.1	3575.6	3502.1	2641.0
37.5°	5216.9	5207.8	5081.5	4919.7	4730.6	4645.6	4459.0	4110.6	3847.2	3780.4	2833.4
40°	5351.4	5333.3	5245.8	5125.2	4966.7	4892.4	4814.8	4425.1	4166.7	4083.3	3060.4
42.5°	5391.1	5369.6	5311.8	5255.7	5159.9	5101.3	5184.7	4780.1	4517.6	4445.8	3319.7
45°	5273.8	5261.5	5256.5	5297.0	5314.3	5330.8	5536.4	5173.1	4904.8	4850.3	3645.8
47.5°	4991.5	4988.2	5031.9	5200.4	5383.6	5557.8	5918.6	5657.7	5406.8	5348.1	4101.5
50°	4469.7	4503.6	4625.8	4921.3	5287.9	5686.6	6276.1	6329.8	6219.1	6133.3	4695.9
52.5°	3654.0	3719.3	3993.4	4442.5	4969.2	5650.3	6441.2	6868.0	6981.1	6892.0	5121.9
55°	2867.3	2928.3	3172.7	3742.4	4444.9	5373.7	6448.6	7053.8	7300.6	7218.1	5410.1
57.5°	2135.8	2191.9	2414.0	2958.9	3731.6	4829.7	6272.0	7157.0	7679.6	7626.8	5865.0
60°	1396.1	1451.4	1652.0	2128.4	2894.5	4037.1	5836.9	7135.5	8195.6	8190.6	6423.9
62.5°	774.4	818.2	963.5	1335.0	2020.2	3126.5	5153.3	6920.1	8695.1	8726.4	6884.6
65°	396.3	424.4	512.7	733.9	1222.7	2216.7	4254.2	6426.4	8926.2	9005.5	7005.9
67.5°	259.2	268.3	289.8	381.4	654.7	1394.4	3201.6	5634.6	8600.9	8693.4	6598.9
70°	210.5	218.0	230.3	254.3	337.7	740.5	2102.8	4500.3	7186.7	7249.5	5254.8
72.5°	154.4	164.3	188.2	203.9	243.5	406.2	1093.9	2953.9	4935.3	5046.0	3302.3
75°	113.9	119.7	139.5	161.0	199.0	256.8	418.6	1552.9	2548.6	2484.2	1387.0
77.5°	68.5	72.7	89.2	103.2	142.0	160.2	146.1	573.8	775.2	729.0	335.2
80°	33.8	38.0	58.6	77.6	90.8	64.4	61.1	160.2	172.5	172.5	84.2
82.5°	11.6	14.9	31.4	51.2	44.6	24.8	28.9	41.3	46.2	48.7	24.8
85°	0.0	0.0	7.4	14.9	6.6	3.3	7.4	9.1	11.6	12.4	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	3.3
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°	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3	822.3
2.5°	843.7	804.9	746.3	693.5	653.0	615.1	586.2	563.0	558.9	545.7	547.4
5°	881.7	811.5	703.4	620.0	561.4	521.8	488.7	464.0	453.2	442.5	434.3
7.5°	940.3	838.8	686.9	585.3	516.8	455.7	404.5	363.3	343.4	331.1	322.8
10°	1012.2	876.8	687.7	564.7	463.2	369.9	299.7	254.3	232.8	226.2	225.4
12.5°	1098.0	924.7	694.3	530.9	385.5	274.9	222.1	201.4	194.8	189.1	189.1
15°	1188.8	978.3	694.3	468.9	293.9	214.7	192.4	179.2	170.9	167.6	165.9
17.5°	1284.6	1028.7	677.8	383.9	225.4	189.1	170.9	158.5	151.9	147.0	145.3
20°	1387.0	1076.6	636.5	293.9	193.2	169.2	151.9	139.5	132.9	128.0	128.0
22.5°	1491.0	1121.1	569.7	226.2	170.9	150.3	133.7	122.2	115.6	110.6	110.6
25°	1587.6	1150.9	483.8	186.6	154.4	133.7	118.9	107.3	99.9	96.6	94.9
27.5°	1677.6	1169.9	388.9	164.3	138.7	119.7	104.0	93.3	87.5	85.0	83.4
30°	1770.9	1174.8	297.2	149.4	125.5	105.7	90.8	82.6	77.6	74.3	74.3
32.5°	1861.7	1169.0	227.0	137.0	113.9	93.3	80.9	73.5	69.3	66.9	66.0
35°	1954.2	1142.6	184.1	126.3	102.4	81.7	71.8	66.0	63.6	60.3	60.3
37.5°	2054.9	1107.1	160.2	115.6	90.8	73.5	64.4	60.3	57.0	54.5	53.7
40°	2180.4	1065.8	147.0	106.5	80.1	66.0	57.8	53.7	51.2	48.7	47.9
42.5°	2329.0	1025.4	140.3	96.6	71.8	58.6	52.0	47.1	44.6	41.3	40.5
45°	2539.5	1016.3	132.9	85.9	64.4	52.8	45.4	40.5	37.2	34.7	33.8
47.5°	2878.0	1041.9	120.5	74.3	57.0	46.2	38.8	34.7	30.5	28.1	26.4
50°	3214.0	1035.3	108.2	64.4	50.4	39.6	33.0	28.9	24.8	22.3	21.5
52.5°	3397.3	1003.9	96.6	57.0	43.8	33.8	28.1	23.1	20.6	18.2	17.3
55°	3563.2	991.5	85.0	49.5	37.2	29.7	23.1	19.0	17.3	14.9	14.0
57.5°	3888.5	1020.4	75.1	42.9	32.2	25.6	19.8	15.7	14.0	11.6	10.7
60°	4228.6	1023.7	64.4	37.2	28.1	21.5	15.7	12.4	10.7	8.3	7.4
62.5°	4406.1	940.3	52.8	31.4	23.1	18.2	13.2	9.9	8.3	5.0	5.0
65°	4257.5	760.4	44.6	25.6	18.2	14.0	9.9	7.4	5.0	2.5	0.8
67.5°	3768.0	540.8	37.2	20.6	13.2	9.9	7.4	5.0	0.8	0.0	0.0
70°	2759.1	308.8	28.9	14.9	9.9	6.6	5.0	2.5	0.0	0.0	0.0
72.5°	1695.8	165.1	21.5	9.9	7.4	5.0	4.1	1.7	0.0	0.0	0.0
75°	643.1	79.3	13.2	6.6	5.8	4.1	2.5	0.8	0.0	0.0	0.0
77.5°	174.2	38.8	7.4	5.0	4.1	2.5	1.7	0.0	0.0	0.0	0.0
80°	45.4	18.2	5.0	3.3	2.5	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	15.7	8.3	2.5	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
85°	6.6	3.3	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.8	0.8	0.8	0.8	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)