

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: P639372

Luminaire Tested: GWS-SA5B-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

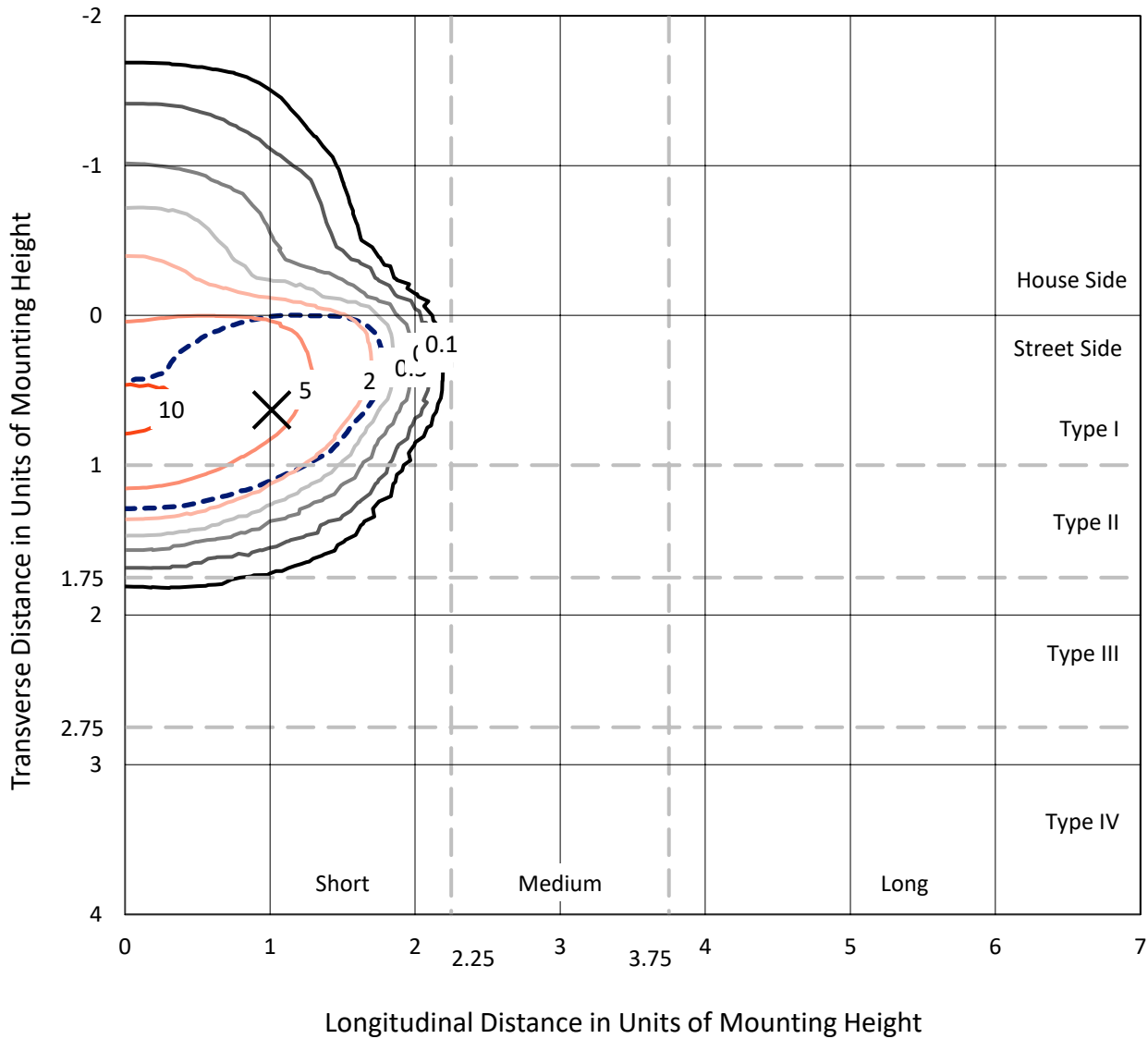
Lumens per Lamp: N/A  
Luminaire Lumens: 12008.4 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

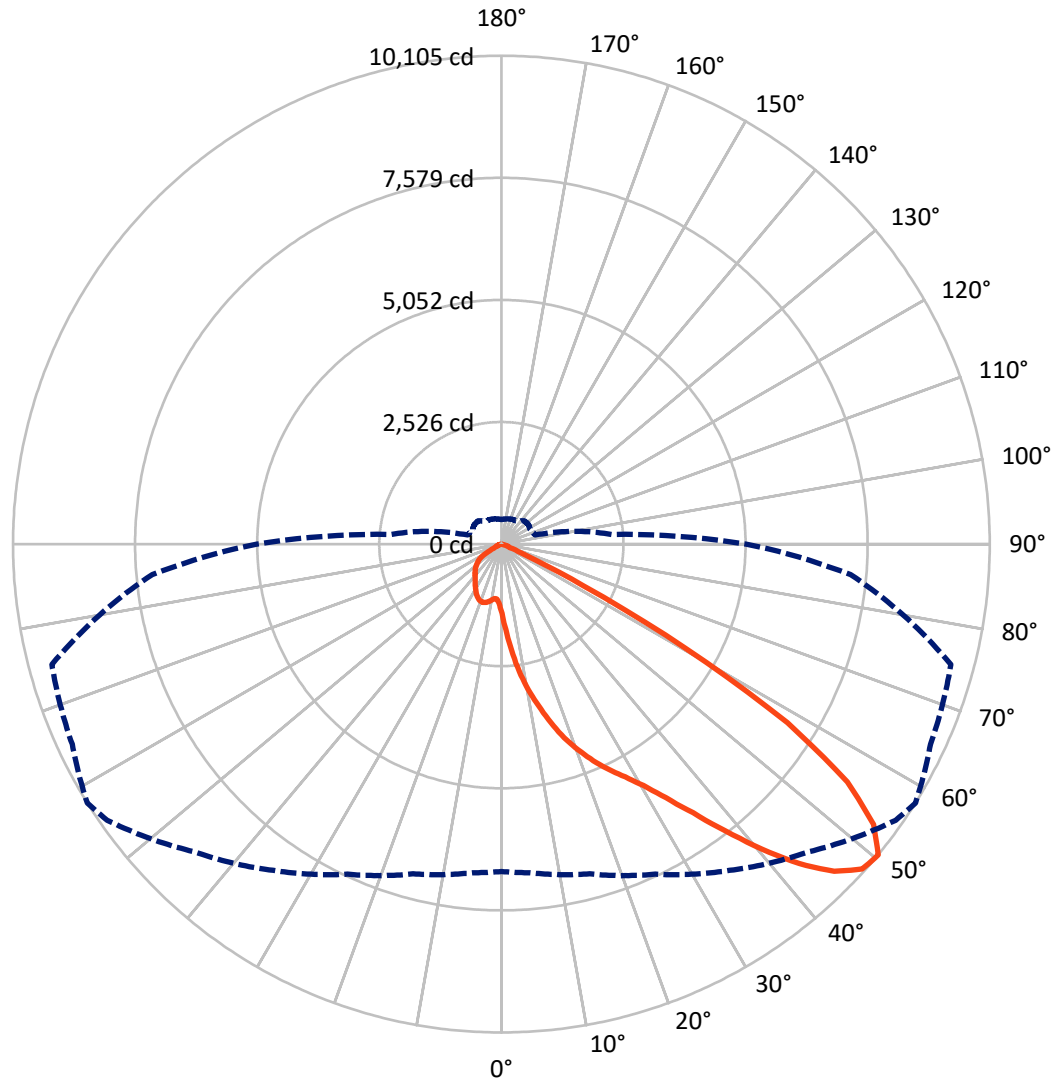
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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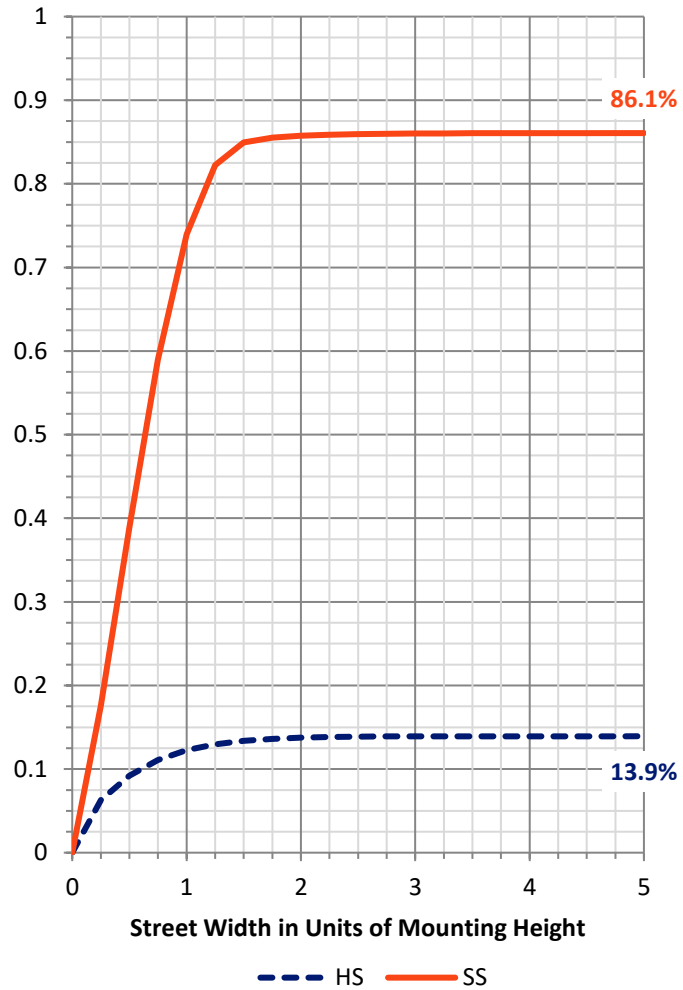
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1681.9	0.0	1681.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10326.5	0.0	10326.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	12008.4	0.0	12008.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	1.5
10°-20°	703.5	5.9
20°-30°	1423.5	11.9
30°-40°	2518.3	21.0
40°-50°	3671.1	30.6
50°-60°	2942.5	24.5
60°-70°	530.1	4.4
70°-80°	41.8	0.3
80°-90°	0.0	0.0
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°	12008.4	100.0
0°-180°	12008.4	100.0

**Coefficient of Utilization**



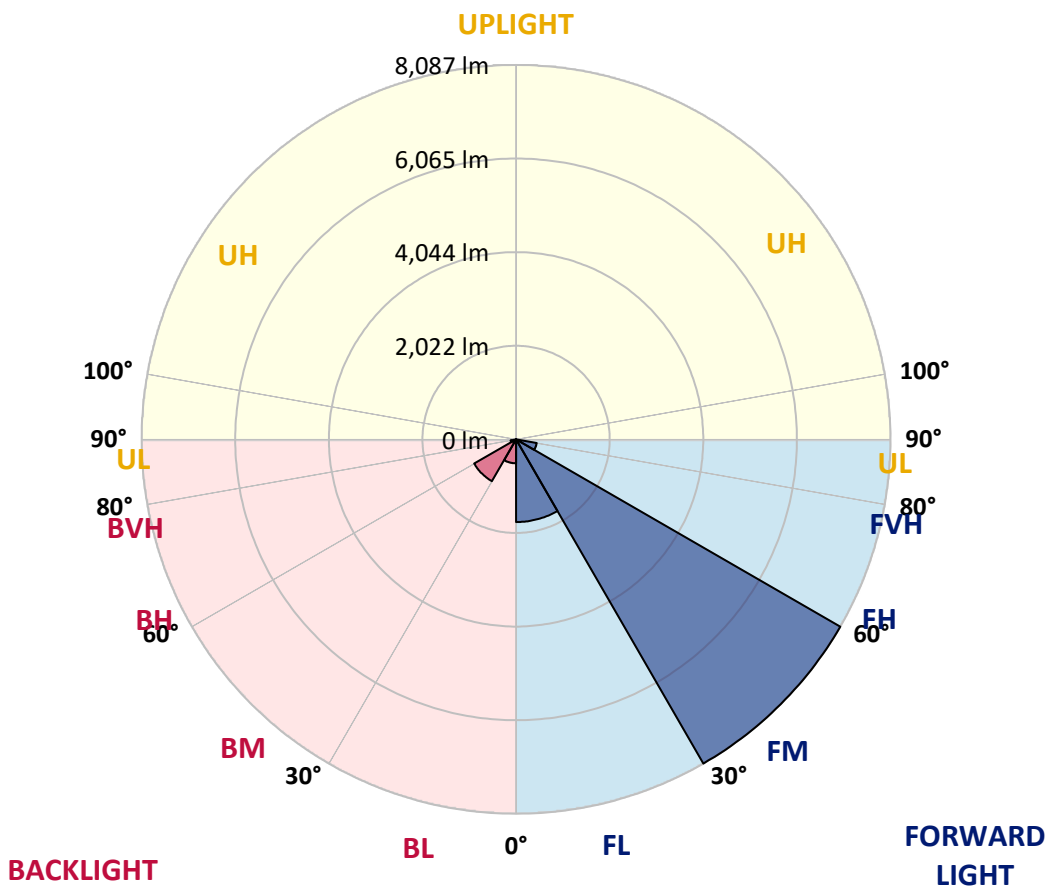
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.8	14.9			
FM (30°-60°)	8087.3	67.3			
FH (60°-80°)	452.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	517.8	4.3	B2/1000		
BM (30°-60°)	1044.6	8.7	B2/2500		
BH (60°-80°)	119.5	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	2122.7	2089.3	2070.0	2054.6	1986.6	1878.7	1808.1	1770.8	1709.2	1605.2	1515.3
5°	2769.9	2745.5	2700.5	2669.7	2582.4	2429.6	2271.6	2208.7	2068.7	1833.7	1623.2
7.5°	3198.8	3180.8	3164.1	3123.0	3040.8	2902.2	2727.5	2662.0	2446.3	2112.4	1767.0
10°	3528.8	3514.7	3495.4	3494.1	3429.9	3305.4	3134.6	3066.5	2832.8	2415.5	1936.5
12.5°	3819.0	3807.5	3803.6	3839.6	3798.5	3706.0	3521.1	3436.4	3188.5	2724.9	2124.0
15°	4018.1	4015.5	4032.2	4102.8	4125.9	4083.6	3928.2	3837.0	3551.9	3035.7	2330.7
17.5°	4109.2	4116.9	4149.1	4271.0	4373.8	4409.7	4290.3	4213.3	3912.8	3350.3	2551.6
20°	4264.6	4262.1	4281.3	4396.9	4522.7	4651.1	4615.2	4549.7	4277.5	3682.9	2796.9
22.5°	4702.5	4665.3	4624.2	4642.2	4687.1	4837.3	4904.1	4870.7	4653.7	4024.5	3049.8
25°	5375.4	5336.9	5204.6	5076.2	4991.4	5059.5	5150.7	5167.4	5027.4	4375.1	3314.4
27.5°	6089.4	6054.7	5905.8	5713.1	5470.4	5352.3	5420.3	5453.7	5394.7	4792.4	3595.6
30°	6758.4	6712.2	6549.1	6310.3	6029.0	5848.0	5770.9	5794.0	5828.7	5286.8	3925.6
32.5°	7338.9	7304.2	7109.0	6857.3	6586.3	6397.6	6217.8	6256.3	6341.1	5891.6	4348.1
35°	7830.7	7812.7	7606.0	7355.5	7069.2	6972.9	6818.8	6826.5	6911.2	6622.3	4863.0
37.5°	8258.3	8227.5	8040.0	7807.6	7580.3	7564.9	7522.5	7526.3	7570.0	7473.7	5455.0
40°	8528.0	8499.7	8366.2	8222.3	8060.5	8063.1	8282.7	8299.4	8249.3	8309.7	6080.4
42.5°	8629.4	8608.9	8537.0	8538.2	8521.5	8597.3	9009.5	9040.3	8860.6	8965.9	6614.6
45°	8453.5	8444.5	8449.6	8634.5	8834.9	9068.6	9604.1	9658.0	9403.7	9401.2	7031.9
47.5°	7885.9	7867.9	8018.2	8332.8	8796.3	9250.9	9963.6	10047.1	9783.9	9650.3	7293.9
50°	6773.8	6825.2	7062.8	7535.3	8240.3	9000.5	9959.8	10104.9	9798.0	9628.5	7250.2
52.5°	4906.7	4896.4	5416.5	6066.3	6924.1	8199.2	9430.7	9642.6	9455.1	9414.0	7152.7
55°	2669.7	2763.5	3114.0	3974.4	5045.4	6682.7	8222.3	8684.6	8901.6	9335.7	7328.6
57.5°	981.1	1022.2	1241.8	1850.4	2671.0	4155.5	6280.7	6978.0	7648.3	9117.4	7299.0
60°	395.5	403.2	490.5	680.6	1122.3	2115.0	3767.7	4386.6	5018.4	6979.3	5601.4
62.5°	287.6	297.9	332.6	398.1	567.6	924.6	1624.4	1889.0	2064.9	3456.9	2759.6
65°	232.4	240.1	268.4	297.9	375.0	497.0	523.9	504.7	502.1	893.8	633.1
67.5°	192.6	200.3	220.9	241.4	269.7	247.8	179.8	188.8	154.1	152.8	124.6
70°	141.3	150.2	170.8	192.6	161.8	66.8	104.0	154.1	116.9	97.6	95.0
72.5°	106.6	113.0	132.3	125.8	47.5	25.7	69.3	111.7	89.9	71.9	70.6
75°	79.6	83.5	66.8	20.5	5.1	6.4	25.7	46.2	50.1	41.1	41.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.9	5.1	6.4	7.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	1463.9	1410.0	1332.9	1268.7	1219.9	1172.4	1136.5	1100.5	1099.2	1081.2	1077.4
5°	1525.6	1428.0	1286.7	1185.3	1123.6	1086.4	1060.7	1047.9	1041.4	1035.0	1032.4
7.5°	1614.2	1474.2	1279.0	1171.1	1119.8	1095.4	1077.4	1069.7	1065.8	1060.7	1059.4
10°	1723.3	1541.0	1307.3	1198.1	1153.2	1130.0	1110.8	1099.2	1092.8	1083.8	1081.2
12.5°	1854.3	1623.2	1352.2	1243.0	1195.5	1164.7	1139.0	1122.3	1113.3	1101.8	1099.2
15°	1995.6	1711.8	1402.3	1284.1	1227.6	1187.8	1155.7	1130.0	1113.3	1099.2	1095.4
17.5°	2141.9	1801.6	1447.2	1312.4	1243.0	1195.5	1149.3	1114.6	1094.1	1076.1	1071.0
20°	2306.3	1894.1	1476.8	1317.5	1237.9	1175.0	1121.1	1077.4	1056.8	1032.4	1027.3
22.5°	2478.4	1980.1	1489.6	1306.0	1209.7	1136.5	1078.7	1033.7	1004.2	978.5	970.8
25°	2645.3	2057.2	1483.2	1273.9	1167.3	1082.5	1023.5	977.2	945.1	919.4	913.0
27.5°	2822.5	2121.4	1460.1	1226.4	1109.5	1023.5	967.0	927.1	897.6	869.4	862.9
30°	3021.6	2180.5	1422.8	1168.6	1041.4	963.1	919.4	892.5	860.4	830.8	821.8
32.5°	3261.7	2233.1	1368.9	1099.2	981.1	910.5	886.1	865.5	828.3	797.5	791.0
35°	3536.5	2276.8	1300.8	1027.3	922.0	877.1	871.9	845.0	796.2	760.2	752.5
37.5°	3855.0	2319.2	1219.9	956.7	878.4	861.7	862.9	816.7	757.6	714.0	708.8
40°	4197.8	2361.5	1130.0	895.0	838.5	852.7	841.1	775.6	679.3	636.9	631.8
42.5°	4554.8	2407.8	1038.9	837.3	805.2	818.0	801.3	693.4	624.1	602.3	599.7
45°	4877.2	2463.0	940.0	779.5	771.8	767.9	739.7	627.9	598.4	583.0	581.7
47.5°	5109.6	2454.0	834.7	724.3	735.8	723.0	636.9	597.1	572.7	552.2	547.0
50°	5067.2	2297.3	725.5	662.6	689.6	678.0	572.7	561.2	539.3	517.5	509.8
52.5°	4959.3	2084.2	630.5	597.1	639.5	612.5	529.1	517.5	498.2	470.0	461.0
55°	5017.1	1883.8	556.0	544.5	588.1	507.2	480.3	462.3	441.7	410.9	407.1
57.5°	4830.9	1537.1	446.9	454.6	520.1	432.8	421.2	392.9	358.3	337.7	335.2
60°	3343.9	825.7	279.9	288.9	376.3	363.4	377.5	351.9	309.5	290.2	286.4
62.5°	1535.8	331.3	152.8	146.4	197.8	246.6	323.6	321.0	268.4	237.6	235.0
65°	372.4	151.5	109.2	102.7	111.7	147.7	210.6	253.0	217.0	181.1	177.2
67.5°	120.7	123.3	100.2	93.7	98.9	110.4	125.8	140.0	138.7	127.1	124.6
70°	96.3	111.7	92.5	84.8	84.8	88.6	84.8	68.1	59.1	64.2	66.8
72.5°	71.9	84.8	73.2	65.5	62.9	61.6	52.6	38.5	27.0	24.4	23.1
75°	42.4	47.5	44.9	38.5	36.0	32.1	25.7	16.7	9.0	6.4	3.9
77.5°	7.7	9.0	10.3	7.7	6.4	5.1	3.9	1.3	0.0	0.0	0.0
80°	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)