

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: P633825

Luminaire Tested: GWS-SA2F-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

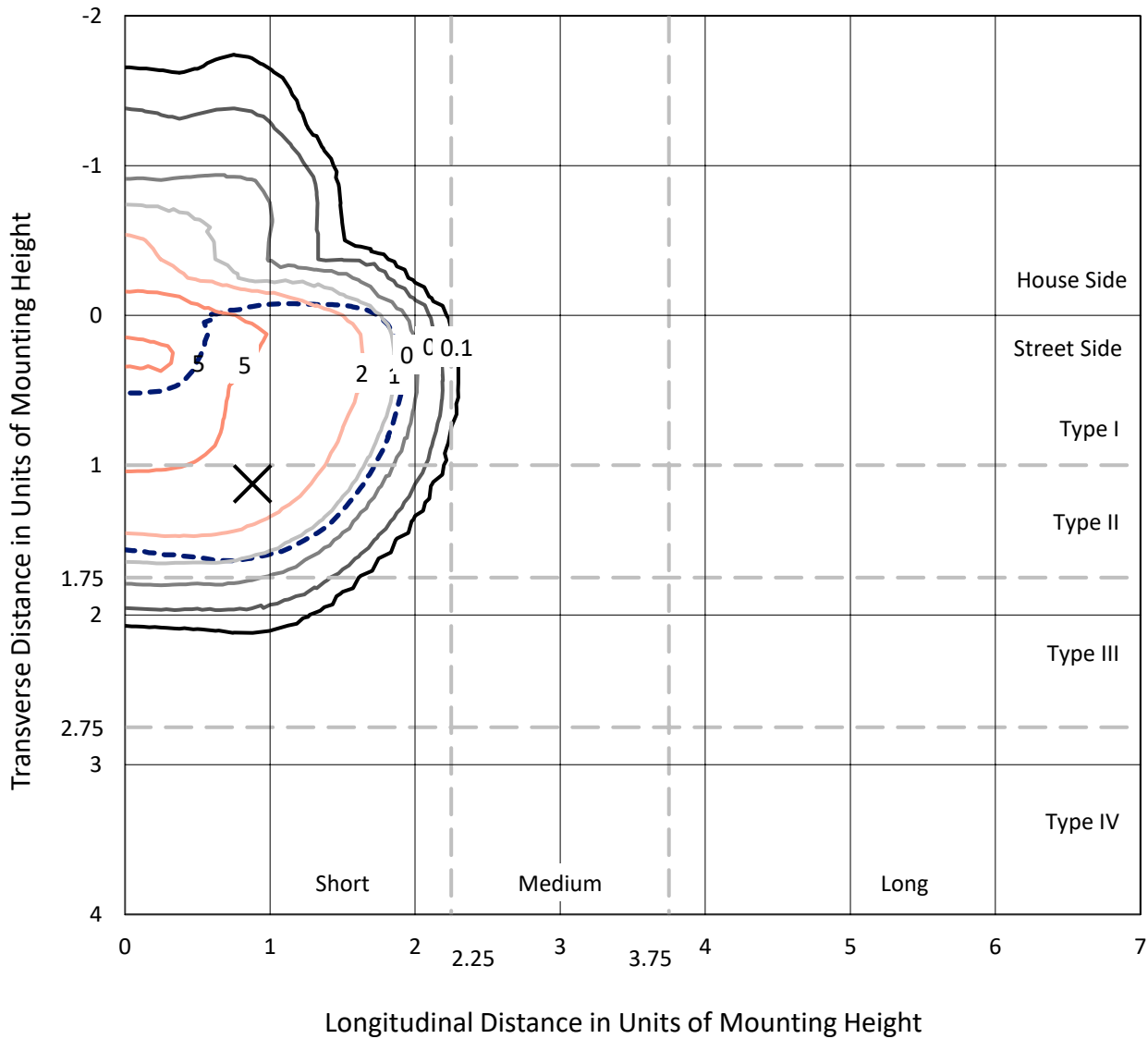
Lumens per Lamp: N/A  
Luminaire Lumens: 10174.7 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

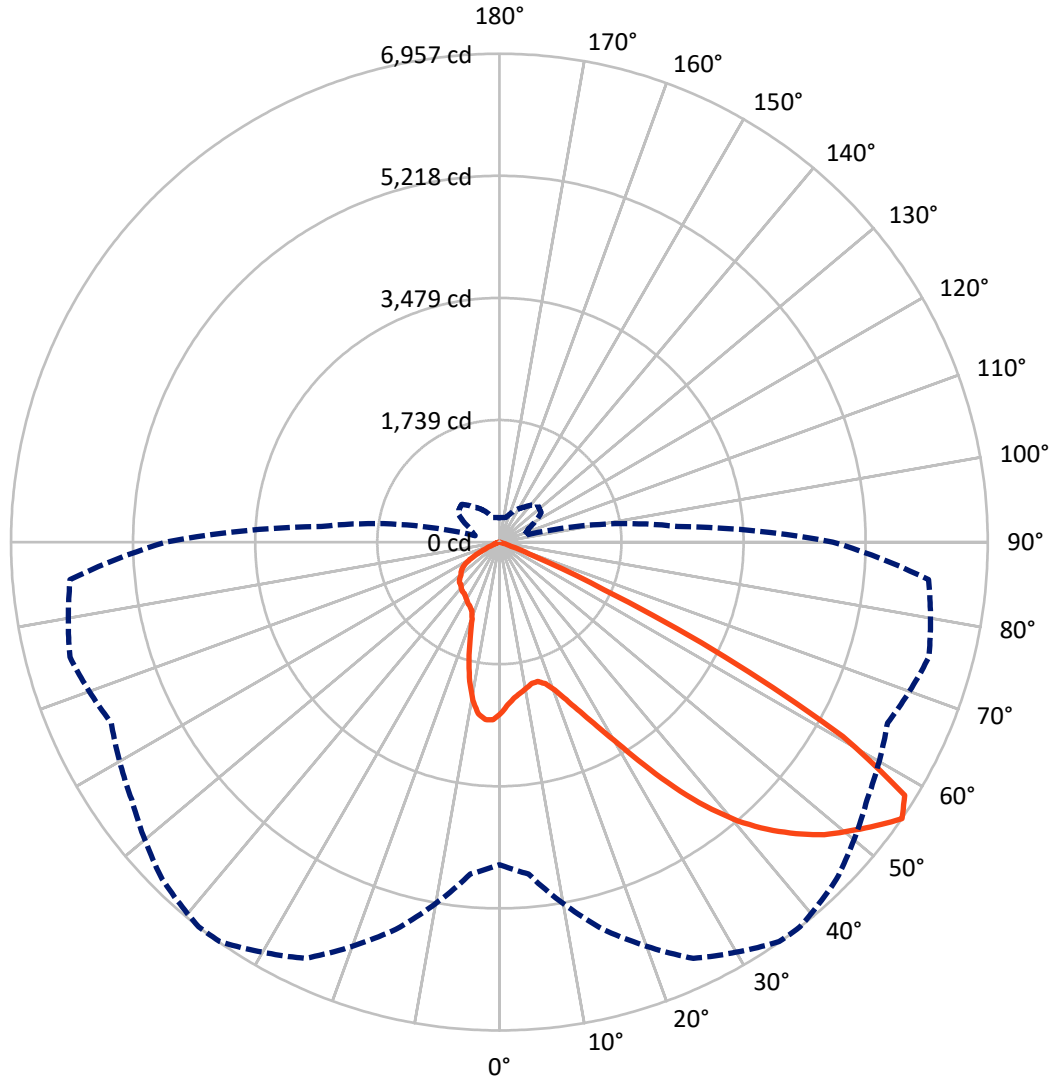
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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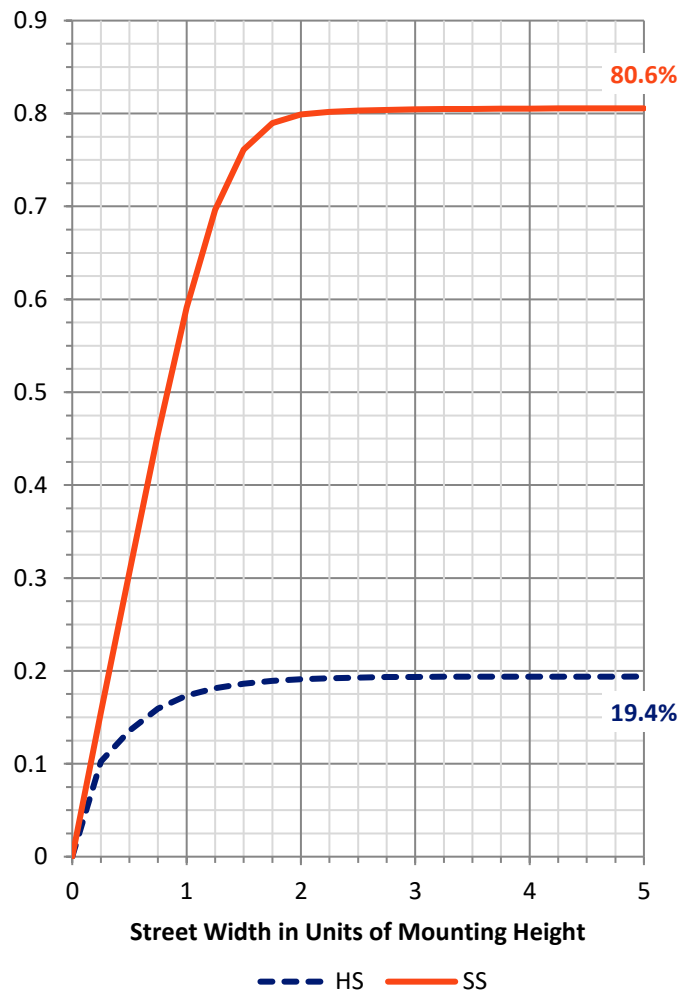
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1982.3	0.0	1982.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8192.4	0.0	8192.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	10174.7	0.0	10174.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.6	2.2
10°-20°	607.4	6.0
20°-30°	1042.3	10.2
30°-40°	1728.7	17.0
40°-50°	2541.2	25.0
50°-60°	2969.5	29.2
60°-70°	1006.6	9.9
70°-80°	51.5	0.5
80°-90°	2.0	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°	10174.7	100.0
0°-180°	10174.7	100.0

**Coefficient of Utilization**



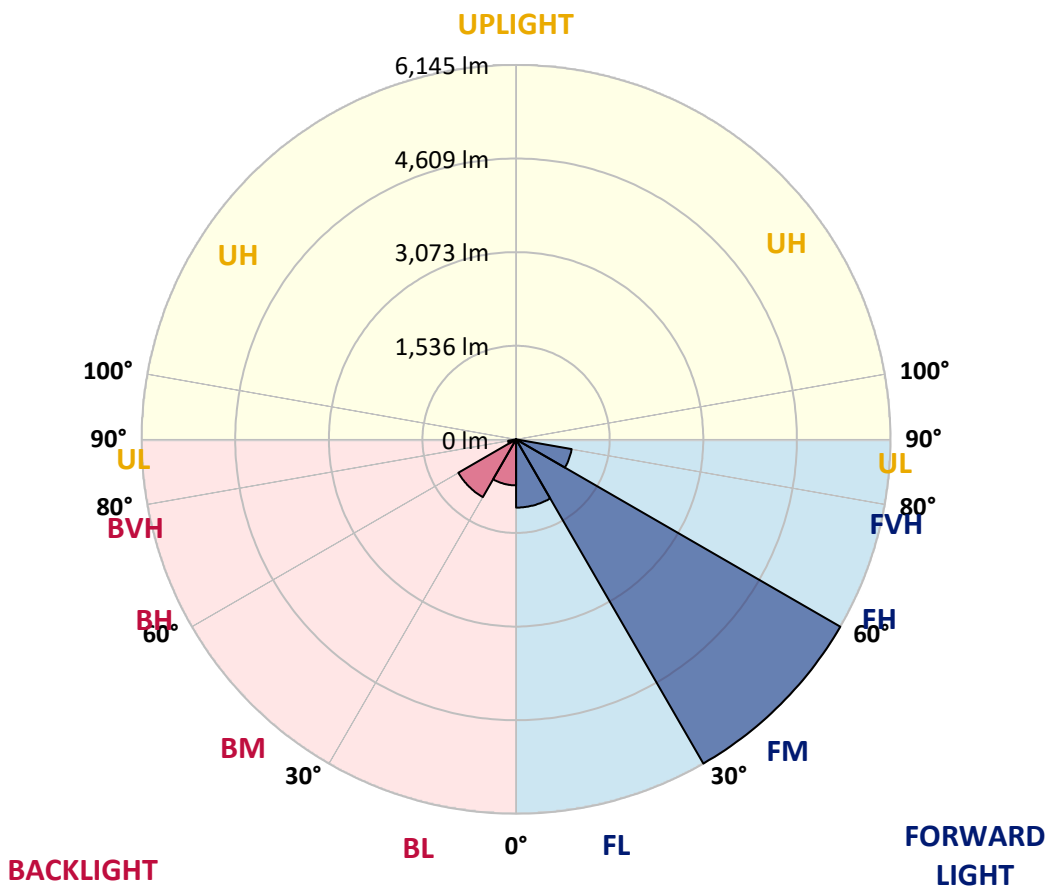
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.0	11.0			
FM (30°-60°)	6145.2	60.4			
FH (60°-80°)	926.1	9.1			G1/1800
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	755.3	7.4	B2/1000		
BM (30°-60°)	1094.2	10.8	B2/2500		
BH (60°-80°)	132.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.0	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°	38°	45°	55°	65°	75°	85°
0°	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0
2.5°	2272.5	2267.8	2277.2	2295.8	2313.2	2319.0	2336.5	2360.9	2376.0	2412.1	2441.1
5°	2170.2	2167.8	2177.1	2193.4	2216.7	2224.8	2251.6	2292.3	2333.0	2395.8	2457.4
7.5°	2077.1	2076.0	2089.9	2126.0	2159.7	2170.2	2202.7	2252.7	2307.4	2403.9	2494.6
10°	1955.0	1956.2	1982.9	2034.1	2095.7	2116.7	2169.0	2241.1	2312.0	2436.5	2562.1
12.5°	1915.5	1917.8	1931.7	1971.3	2038.7	2065.5	2138.8	2248.1	2338.8	2483.0	2649.3
15°	2012.0	2012.0	2000.4	2005.0	2035.2	2059.7	2136.4	2271.3	2384.1	2538.8	2735.4
17.5°	2199.2	2192.3	2163.2	2123.6	2113.2	2121.3	2182.9	2321.3	2448.1	2604.0	2833.1
20°	2452.8	2455.1	2398.1	2315.5	2249.2	2248.1	2285.3	2409.7	2540.0	2681.9	2938.9
22.5°	2759.8	2750.5	2674.9	2562.1	2446.9	2437.6	2452.8	2544.6	2672.6	2805.2	3069.2
25°	3115.7	3111.0	3004.0	2852.8	2700.5	2678.4	2678.4	2769.1	2862.1	2980.8	3225.0
27.5°	3487.8	3487.8	3384.3	3209.9	3007.5	2968.0	2962.2	3069.2	3130.8	3154.1	3356.4
30°	3870.5	3865.8	3763.5	3584.4	3368.0	3327.3	3311.1	3390.1	3434.3	3364.6	3520.4
32.5°	4258.9	4267.0	4163.5	3997.2	3804.2	3777.4	3727.4	3727.4	3763.5	3665.8	3778.6
35°	4676.4	4674.1	4592.7	4479.9	4314.7	4284.5	4201.9	4072.8	4127.5	4084.5	4135.6
37.5°	5045.1	5062.5	5023.0	4939.3	4805.5	4775.3	4639.2	4405.4	4447.3	4514.8	4560.1
40°	5419.6	5433.5	5473.1	5446.3	5277.7	5221.9	4980.0	4596.2	4642.7	4874.1	5004.4
42.5°	5787.1	5794.1	5874.3	5918.5	5692.9	5595.2	5238.1	4712.5	4761.3	5155.6	5383.5
45°	6020.8	6036.0	6168.5	6303.5	6059.2	5925.5	5462.6	4861.3	4882.3	5351.0	5663.8
47.5°	6011.5	6046.4	6295.3	6540.7	6374.4	6230.2	5732.4	5099.7	5064.9	5534.7	5848.7
50°	5824.3	5866.2	6223.2	6612.8	6601.2	6467.4	6032.5	5445.2	5335.8	5697.5	5872.0
52.5°	5435.9	5556.8	6096.4	6622.1	6783.8	6716.3	6403.5	5910.4	5702.2	5931.3	5909.2
55°	4596.2	4745.0	5711.5	6543.0	6948.9	6957.1	6793.1	6395.3	6099.9	6333.7	6138.3
57.5°	3489.0	3607.6	4396.1	5824.3	6675.6	6809.4	6944.3	6651.2	6345.3	6608.2	6191.8
60°	2102.7	2239.9	2752.8	4274.0	5391.7	5619.6	6148.8	6091.8	5723.1	5835.9	5077.7
62.5°	852.5	924.6	1271.2	2355.1	3393.6	3606.5	4113.5	4199.6	4108.9	3993.7	3079.6
65°	311.7	340.8	509.4	973.4	1560.7	1638.7	1906.2	2058.5	2184.1	1859.6	1145.6
67.5°	193.1	211.7	331.5	500.1	567.5	528.0	537.3	640.8	611.7	378.0	204.7
70°	143.0	158.2	259.3	346.6	229.1	176.8	119.8	127.9	115.1	101.2	100.0
72.5°	98.9	112.8	194.2	204.7	88.4	62.8	44.2	61.6	69.8	68.6	70.9
75°	65.1	75.6	122.1	80.2	22.1	17.4	15.1	32.6	41.9	41.9	43.0
77.5°	38.4	44.2	43.0	16.3	4.7	4.7	3.5	5.8	9.3	10.5	12.8
80°	4.7	3.5	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5
82.5°	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5
85°	0.0	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	3.5	3.5
87.5°	0.0	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	3.5	3.5
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°	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0
2.5°	2463.2	2455.1	2488.8	2513.2	2533.0	2542.3	2529.5	2528.4	2528.4	2502.8	2495.8
5°	2492.3	2495.8	2543.5	2564.4	2567.9	2556.3	2527.2	2507.4	2495.8	2469.0	2453.9
7.5°	2548.1	2559.8	2605.1	2601.6	2570.2	2516.7	2440.0	2380.7	2342.3	2300.4	2274.8
10°	2628.4	2650.5	2678.4	2629.5	2529.5	2393.5	2235.3	2122.5	2055.0	2007.3	1978.3
12.5°	2726.1	2748.2	2738.9	2623.7	2415.5	2172.5	1969.0	1806.1	1728.2	1685.2	1654.9
15°	2824.9	2838.9	2778.4	2553.9	2214.3	1887.5	1660.8	1499.1	1403.7	1368.8	1343.3
17.5°	2926.1	2922.6	2785.4	2416.7	1945.7	1566.6	1343.3	1232.8	1206.0	1200.2	1197.9
20°	3031.9	3000.5	2757.5	2220.2	1622.4	1249.1	1122.3	1129.3	1178.1	1201.4	1206.0
22.5°	3152.9	3073.8	2687.7	1953.8	1292.1	1040.9	1053.7	1122.3	1188.6	1220.0	1224.6
25°	3282.0	3141.3	2571.4	1611.9	1018.8	957.1	1032.7	1111.8	1182.8	1221.1	1225.8
27.5°	3366.9	3157.5	2380.7	1267.7	874.6	924.6	1004.8	1080.4	1153.7	1195.6	1201.4
30°	3458.8	3150.6	2121.3	976.9	825.7	896.7	966.5	1035.1	1102.5	1149.0	1153.7
32.5°	3593.7	3145.9	1805.0	793.2	806.0	874.6	925.7	982.7	1029.3	1056.0	1052.5
35°	3770.4	3140.1	1436.3	715.2	794.3	857.1	897.8	924.6	873.4	857.1	860.6
37.5°	3997.2	3154.1	1125.8	682.7	790.8	852.5	887.4	810.6	731.5	701.3	696.6
40°	4248.4	3190.1	858.3	669.9	802.5	864.1	847.8	721.1	623.4	564.1	551.3
42.5°	4500.8	3229.6	679.2	665.2	822.2	896.7	782.7	655.9	509.4	475.7	471.0
45°	4688.0	3222.7	587.3	657.1	839.7	915.3	765.3	562.9	454.7	439.6	440.8
47.5°	4782.3	3145.9	537.3	638.5	846.7	896.7	722.2	524.5	417.5	433.8	447.8
50°	4732.2	2947.0	490.8	602.4	831.5	872.2	653.6	495.4	398.9	466.4	497.8
52.5°	4671.8	2702.8	439.6	546.6	795.5	838.5	626.9	487.3	387.3	450.1	473.3
55°	4752.0	2548.1	355.9	460.5	724.5	759.4	605.9	486.1	360.5	350.1	346.6
57.5°	4639.2	2239.9	254.7	331.5	555.9	601.3	590.8	478.0	319.8	318.7	323.3
60°	3585.5	1366.5	174.4	210.5	340.8	383.8	536.1	457.1	275.6	253.5	254.7
62.5°	2037.6	581.5	119.8	130.3	174.4	207.0	409.4	415.2	254.7	241.9	254.7
65°	709.4	208.2	93.0	87.2	96.5	110.5	234.9	321.0	231.4	209.3	211.7
67.5°	146.5	103.5	82.6	72.1	72.1	72.1	119.8	200.0	190.7	166.3	168.6
70°	93.0	88.4	72.1	61.6	59.3	54.7	68.6	110.5	131.4	121.0	122.1
72.5°	68.6	67.5	57.0	50.0	44.2	39.5	43.0	54.7	67.5	69.8	70.9
75°	41.9	43.0	37.2	31.4	27.9	24.4	25.6	25.6	25.6	23.3	25.6
77.5°	12.8	14.0	11.6	9.3	8.1	8.1	8.1	7.0	5.8	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	0.0	0.0
82.5°	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	0.0	0.0	0.0
85°	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	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)