

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: P640148

Luminaire Tested: GWS-SA5D-730-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20083.2 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

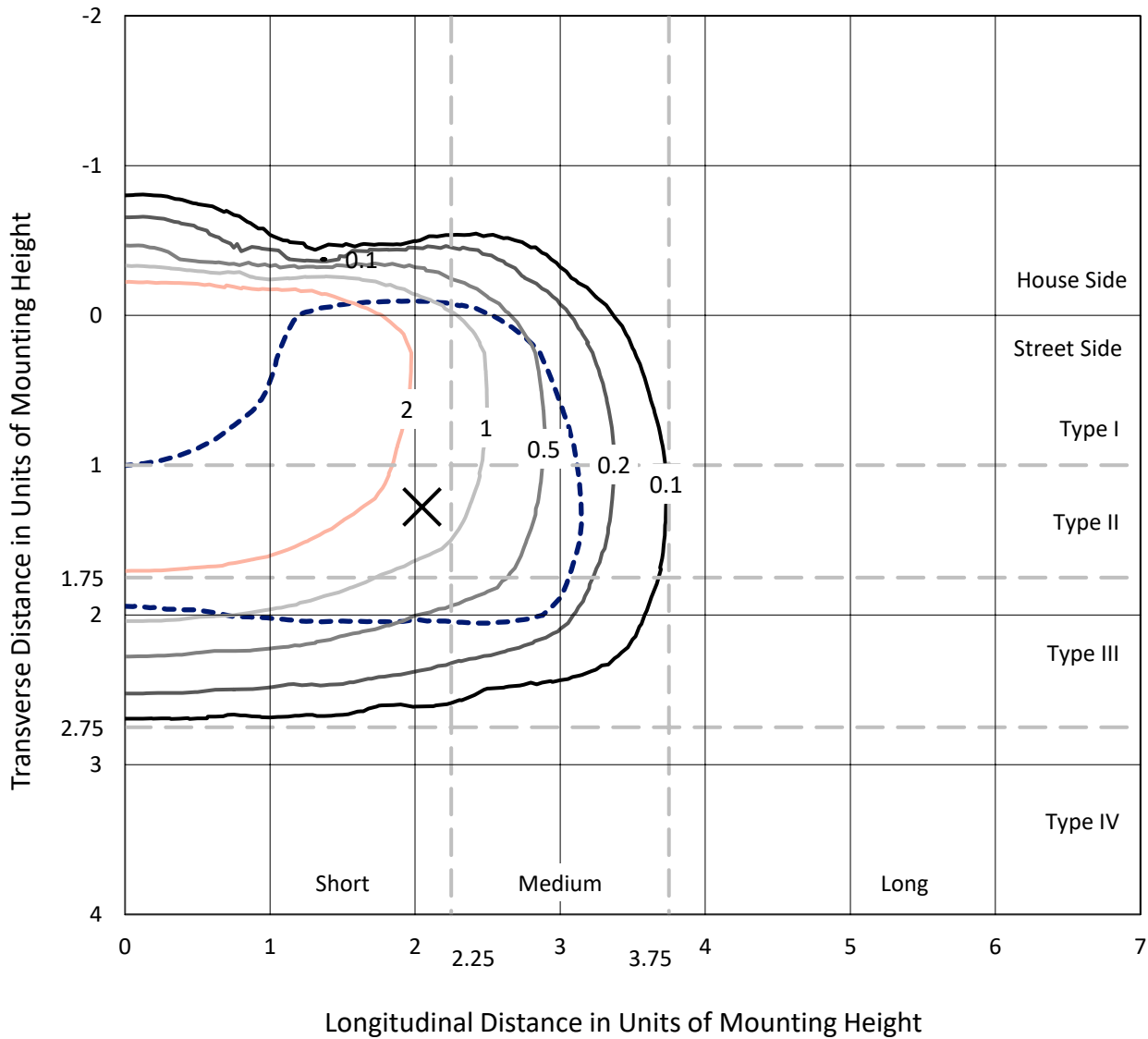
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

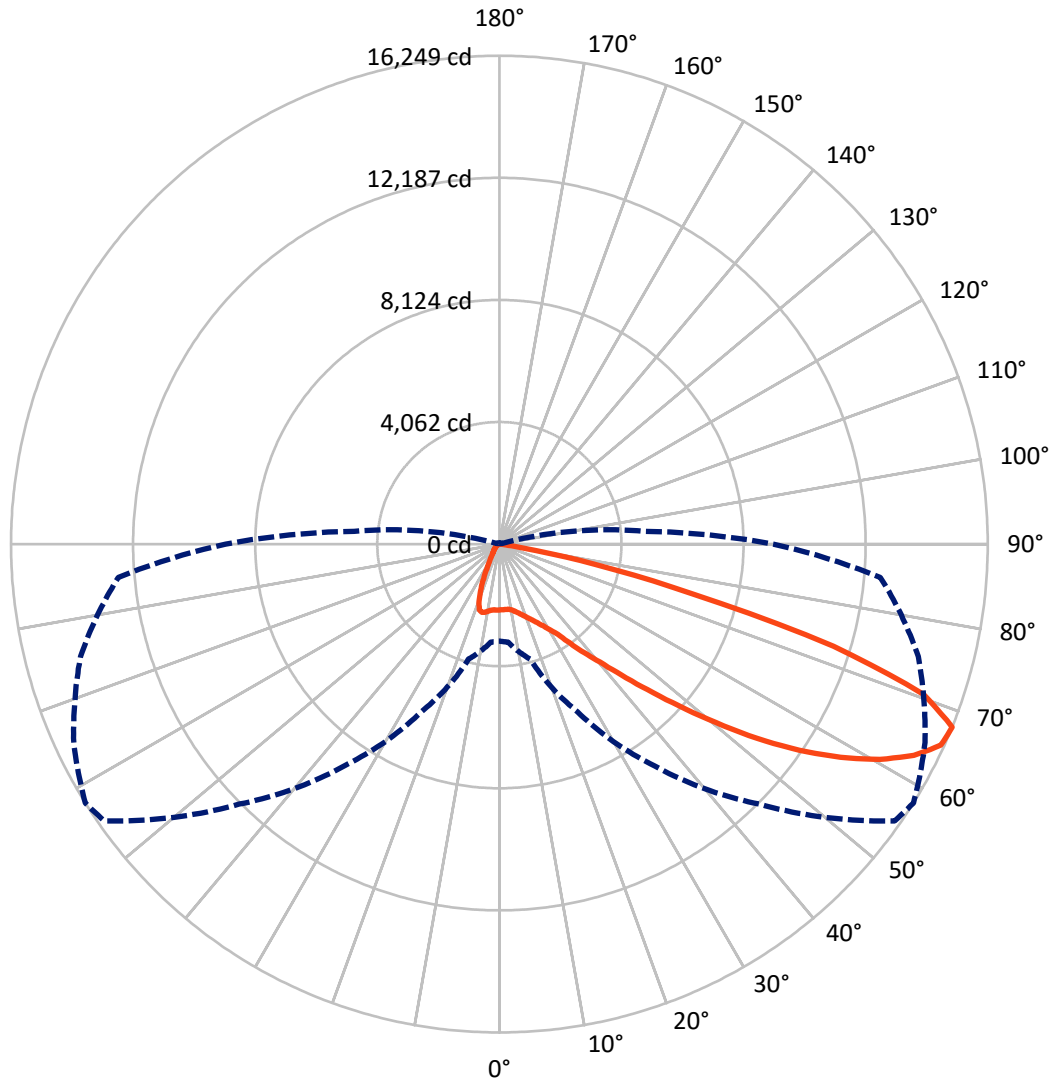
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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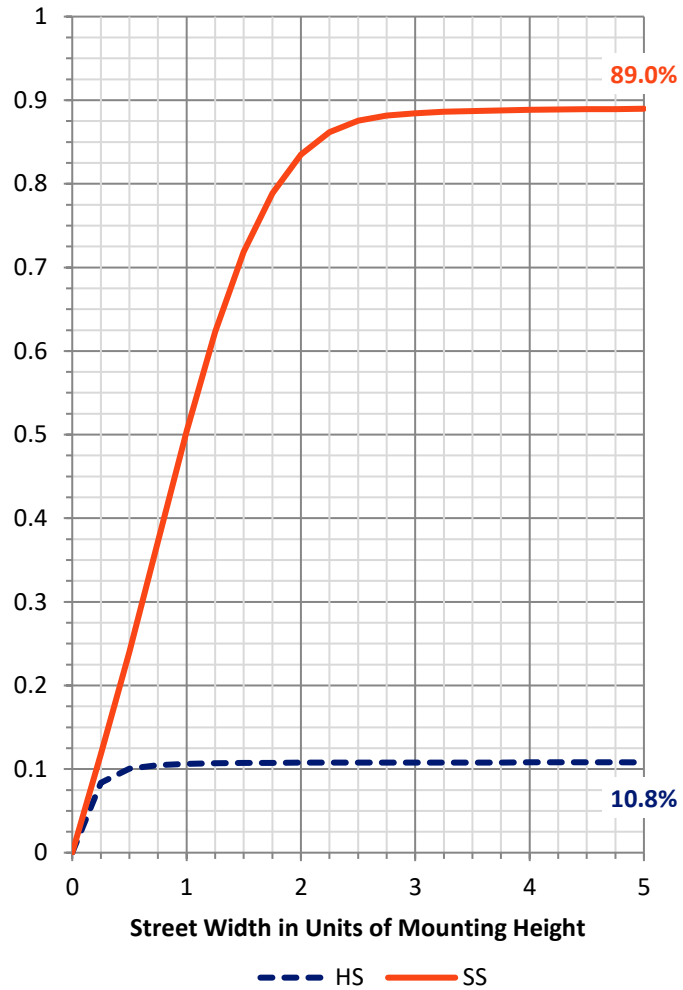
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2191.0	0.0	2191.0
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	17892.2	0.0	17892.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	20083.2	0.0	20083.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	1.0
10°-20°	577.2	2.9
20°-30°	1007.5	5.0
30°-40°	1799.3	9.0
40°-50°	3288.8	16.4
50°-60°	5469.7	27.2
60°-70°	5941.0	29.6
70°-80°	1744.3	8.7
80°-90°	49.7	0.2
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°	20083.2	100.0
0°-180°	20083.2	100.0

Coefficient of Utilization



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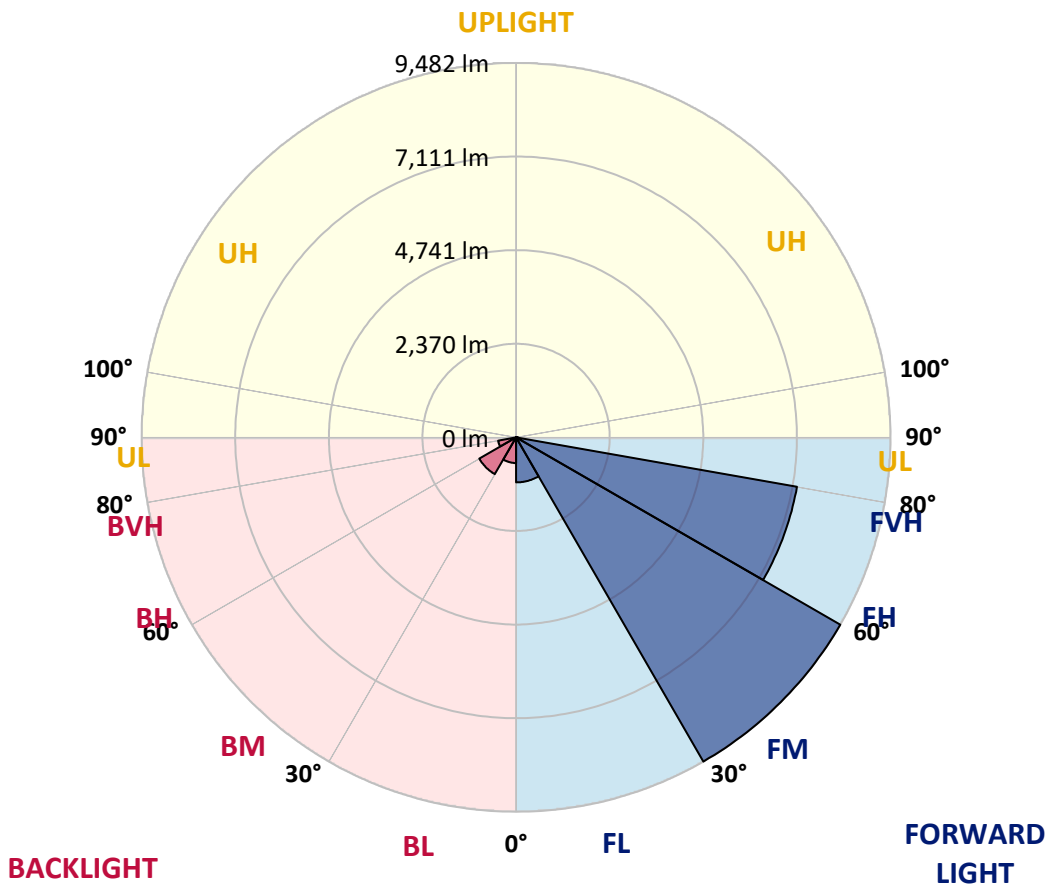
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.4	5.7			
FM (30°-60°)	9481.7	47.2			
FH (60°-80°)	7222.8	36.0			G3/7500
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	649.9	3.2	B2/1000		
BM (30°-60°)	1076.2	5.4	B2/2500		
BH (60°-80°)	462.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5
2.5°	2147.3	2143.4	2143.4	2159.1	2161.0	2168.9	2186.5	2188.5	2198.3	2194.4	2180.6
5°	2035.5	2037.5	2049.2	2076.7	2100.2	2129.6	2172.8	2182.6	2204.2	2215.9	2208.1
7.5°	1931.6	1933.5	1951.2	1994.3	2039.4	2098.3	2168.9	2188.5	2231.6	2263.0	2264.9
10°	1892.4	1890.4	1908.0	1957.1	2015.9	2098.3	2200.2	2225.7	2290.4	2345.3	2355.2
12.5°	1904.1	1902.2	1919.8	1964.9	2029.6	2133.6	2255.1	2290.4	2372.8	2457.1	2474.8
15°	1951.2	1949.2	1961.0	1998.3	2068.8	2176.7	2325.7	2378.7	2482.6	2584.6	2612.0
17.5°	2092.4	2082.6	2070.8	2074.7	2115.9	2227.7	2415.9	2480.7	2610.1	2731.7	2755.2
20°	2343.4	2317.9	2286.5	2245.3	2225.7	2302.2	2519.9	2594.4	2751.3	2890.5	2894.4
22.5°	2721.9	2712.1	2639.5	2519.9	2435.6	2437.5	2641.5	2727.7	2919.9	3072.9	3051.3
25°	3249.4	3243.5	3131.7	2935.6	2716.0	2641.5	2796.4	2884.6	3119.9	3282.7	3214.1
27.5°	3904.3	3863.2	3731.8	3467.0	3139.6	2906.2	2992.5	3070.9	3331.7	3484.7	3355.3
30°	4475.0	4476.9	4353.4	4076.9	3708.2	3304.3	3231.7	3300.4	3525.9	3686.7	3529.8
32.5°	5024.1	5041.7	4906.4	4657.4	4253.4	3823.9	3574.9	3586.7	3774.9	3949.4	3759.2
35°	5533.9	5547.7	5453.5	5241.7	4865.2	4367.1	4053.4	4047.5	4149.5	4327.9	4078.9
37.5°	6104.6	6118.3	6026.1	5835.9	5482.9	4988.8	4596.6	4588.7	4629.9	4775.0	4490.7
40°	6712.5	6738.0	6636.0	6475.2	6137.9	5720.2	5228.0	5157.4	5116.2	5286.8	5024.1
42.5°	7328.2	7367.5	7332.2	7171.4	6883.1	6538.0	6047.7	5937.9	5849.6	6063.4	5784.9
45°	8093.0	8140.1	8124.4	8000.9	7777.3	7496.9	7034.1	6906.6	6865.4	7063.5	6732.1
47.5°	8828.4	8879.4	8936.2	8908.8	8750.0	8620.5	8106.7	8034.2	8022.4	8234.2	7720.4
50°	9375.5	9422.6	9640.2	9797.1	9905.0	9877.5	9432.4	9324.5	9306.9	9442.2	8763.7
52.5°	9767.7	9812.8	10112.8	10603.1	10999.2	11214.9	10765.9	10742.3	10646.2	10599.2	9740.3
55°	10071.7	10134.4	10450.1	11191.4	11989.5	12468.0	12187.6	12103.3	11856.2	11585.5	10646.2
57.5°	10132.5	10157.9	10603.1	11603.2	12758.2	13532.8	13532.8	13385.7	12909.2	12534.7	11693.4
60°	9587.3	9665.7	10267.8	11569.9	13087.7	14229.0	14648.6	14546.7	13903.4	13442.6	12701.4
62.5°	8377.4	8465.6	9199.0	10771.7	12758.2	14372.1	15493.8	15478.1	14752.6	14193.7	13536.7
65°	6424.2	6488.9	7128.2	9010.8	11365.9	13821.1	16097.8	16140.9	15423.2	14689.8	13825.0
67.5°	3227.8	3272.9	3963.2	6155.6	9008.8	12234.6	16056.6	16248.8	15627.2	14427.0	12724.9
70°	1127.6	1172.7	1498.2	2641.5	5482.9	9342.2	14668.2	14982.0	14429.0	12315.0	9387.3
72.5°	386.3	407.9	621.6	980.5	2133.6	5537.8	11154.1	11626.7	10636.4	8267.5	5394.7
75°	219.6	233.4	333.4	531.4	894.2	1821.8	6328.1	6618.4	6200.7	4506.4	2219.8
77.5°	149.0	160.8	207.9	302.0	494.2	586.3	2580.7	3249.4	2833.6	1470.7	566.7
80°	88.2	96.1	127.5	178.5	253.0	227.5	553.0	735.4	947.2	439.3	170.6
82.5°	41.2	47.1	82.4	117.7	127.5	96.1	162.8	198.1	266.7	215.7	70.6
85°	0.0	0.0	27.5	49.0	47.1	27.5	45.1	49.0	72.6	107.9	27.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	3.9	5.9	11.8	21.6	11.8
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°	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5
2.5°	2196.3	2182.6	2198.3	2190.4	2198.3	2196.3	2180.6	2170.8	2170.8	2153.2	2147.3
5°	2223.8	2210.0	2214.0	2196.3	2192.4	2182.6	2163.0	2155.1	2155.1	2137.5	2131.6
7.5°	2284.6	2263.0	2259.1	2223.8	2208.1	2180.6	2145.3	2131.6	2129.6	2112.0	2106.1
10°	2380.6	2355.2	2337.5	2292.4	2247.3	2192.4	2117.9	2055.1	2019.8	1972.8	1968.8
12.5°	2498.3	2466.9	2439.5	2370.8	2296.3	2172.8	1953.1	1723.7	1582.5	1470.7	1478.6
15°	2629.7	2600.3	2557.1	2453.2	2300.2	1978.6	1519.8	1166.8	994.2	902.1	898.1
17.5°	2772.8	2729.7	2659.1	2517.9	2176.7	1511.9	988.3	698.1	607.9	576.5	568.7
20°	2906.2	2853.2	2765.0	2531.6	1819.8	1023.6	617.7	541.2	525.5	515.7	515.7
22.5°	3047.4	2980.7	2849.3	2425.7	1353.1	655.0	525.5	507.9	496.1	482.4	480.4
25°	3190.5	3104.3	2925.8	2149.2	886.4	515.7	492.2	472.6	451.0	429.5	423.6
27.5°	3312.1	3200.3	2984.6	1737.4	568.7	464.8	449.1	415.7	386.3	362.8	358.9
30°	3457.2	3314.1	3010.1	1270.7	447.1	409.8	386.3	351.0	315.7	292.2	284.3
32.5°	3651.4	3494.5	2970.9	827.5	396.1	360.8	323.6	282.4	247.1	221.6	217.7
35°	3953.4	3767.1	2790.5	527.5	358.9	311.8	266.7	223.6	194.1	174.5	170.6
37.5°	4322.0	4149.5	2494.4	396.1	321.6	270.6	217.7	176.5	154.9	141.2	137.3
40°	4869.1	4627.9	2127.7	347.1	284.3	229.4	178.5	145.1	129.4	117.7	113.7
42.5°	5579.0	5192.7	1706.1	315.7	249.0	192.2	145.1	119.6	105.9	98.0	96.1
45°	6408.5	5743.8	1260.9	284.3	215.7	158.8	119.6	98.0	88.2	82.4	80.4
47.5°	7257.6	6226.2	870.7	251.0	184.3	131.4	100.0	84.3	76.5	68.6	66.7
50°	8163.6	6634.0	594.2	217.7	156.9	107.9	86.3	76.5	66.7	60.8	58.8
52.5°	8828.4	6785.0	413.8	188.3	133.3	92.2	76.5	68.6	60.8	52.9	51.0
55°	9442.2	6781.1	313.8	158.8	113.7	80.4	68.6	60.8	52.9	47.1	45.1
57.5°	10054.0	6728.2	247.1	135.3	98.0	72.6	60.8	52.9	49.0	41.2	39.2
60°	10450.1	6528.1	192.2	113.7	84.3	62.8	52.9	47.1	41.2	35.3	33.3
62.5°	10660.0	6249.7	147.1	90.2	68.6	54.9	47.1	41.2	35.3	29.4	27.5
65°	10375.6	5755.5	115.7	70.6	52.9	47.1	39.2	33.3	27.5	21.6	19.6
67.5°	9114.7	4853.5	90.2	56.9	41.2	35.3	33.3	27.5	19.6	15.7	13.7
70°	6441.9	3323.9	70.6	43.1	31.4	27.5	25.5	21.6	15.7	11.8	9.8
72.5°	3535.7	1676.6	51.0	31.4	23.5	21.6	19.6	17.6	13.7	9.8	9.8
75°	1360.9	460.8	37.3	21.6	15.7	15.7	13.7	13.7	11.8	7.8	7.8
77.5°	354.9	137.3	23.5	13.7	9.8	9.8	9.8	7.8	7.8	5.9	5.9
80°	113.7	45.1	13.7	9.8	7.8	5.9	5.9	3.9	5.9	3.9	3.9
82.5°	37.3	15.7	7.8	7.8	5.9	3.9	3.9	2.0	2.0	0.0	0.0
85°	13.7	7.8	5.9	3.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	3.9	3.9	3.9	2.0	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)