

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P479174

Luminaire Tested: **IFLD-S-SA3E-722-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

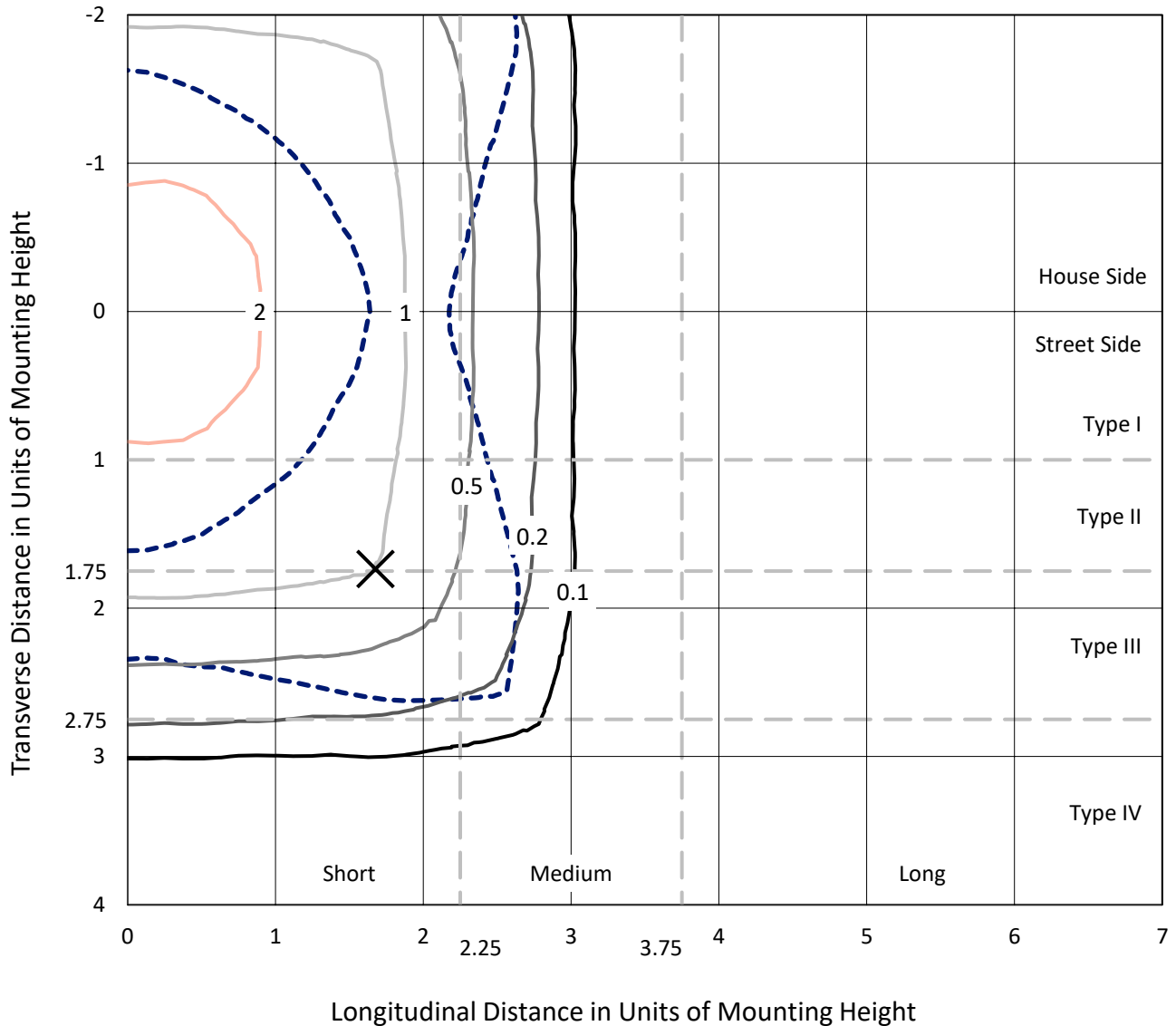
Lumens per Lamp: N/A
Luminaire Lumens: 20055.5 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P479174
 CATALOG NUMBER: IFLD-S-SA3E-722-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

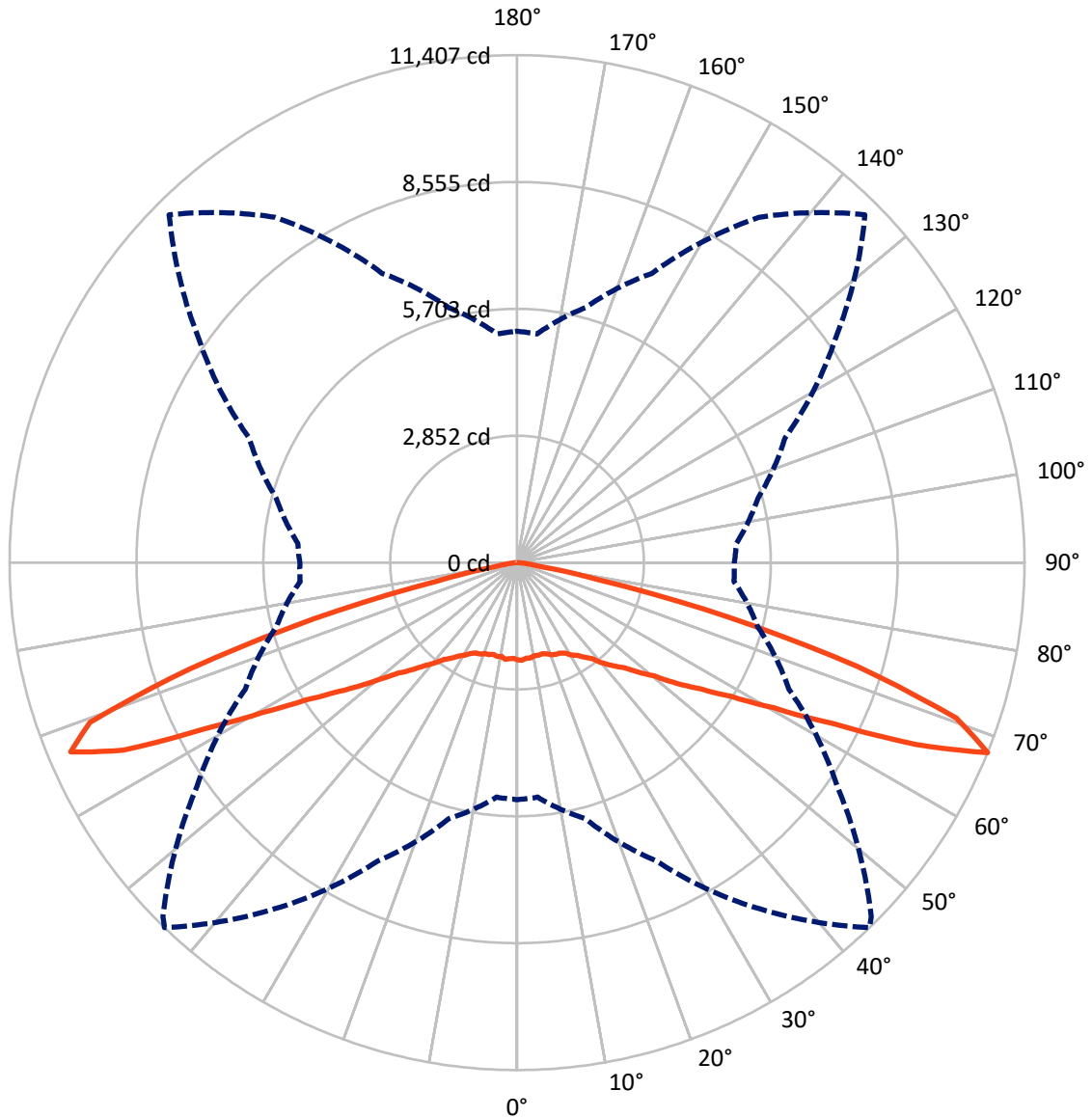
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P479174
CATALOG NUMBER: IFLD-S-SA3E-722-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479174

CATALOG NUMBER: IFLD-S-SA3E-722-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10002.1	0.0	10002.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10053.4	0.0	10053.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	20055.5	0.0	20055.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.0
10°-20°	605.6	3.0
20°-30°	1029.9	5.1
30°-40°	1633.0	8.1
40°-50°	2662.7	13.3
50°-60°	4547.6	22.7
60°-70°	6916.8	34.5
70°-80°	2331.4	11.6
80°-90°	121.0	0.6
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°	20055.5	100.0
0°-180°	20055.5	100.0

Coefficient of Utilization



REPORT NUMBER: P479174

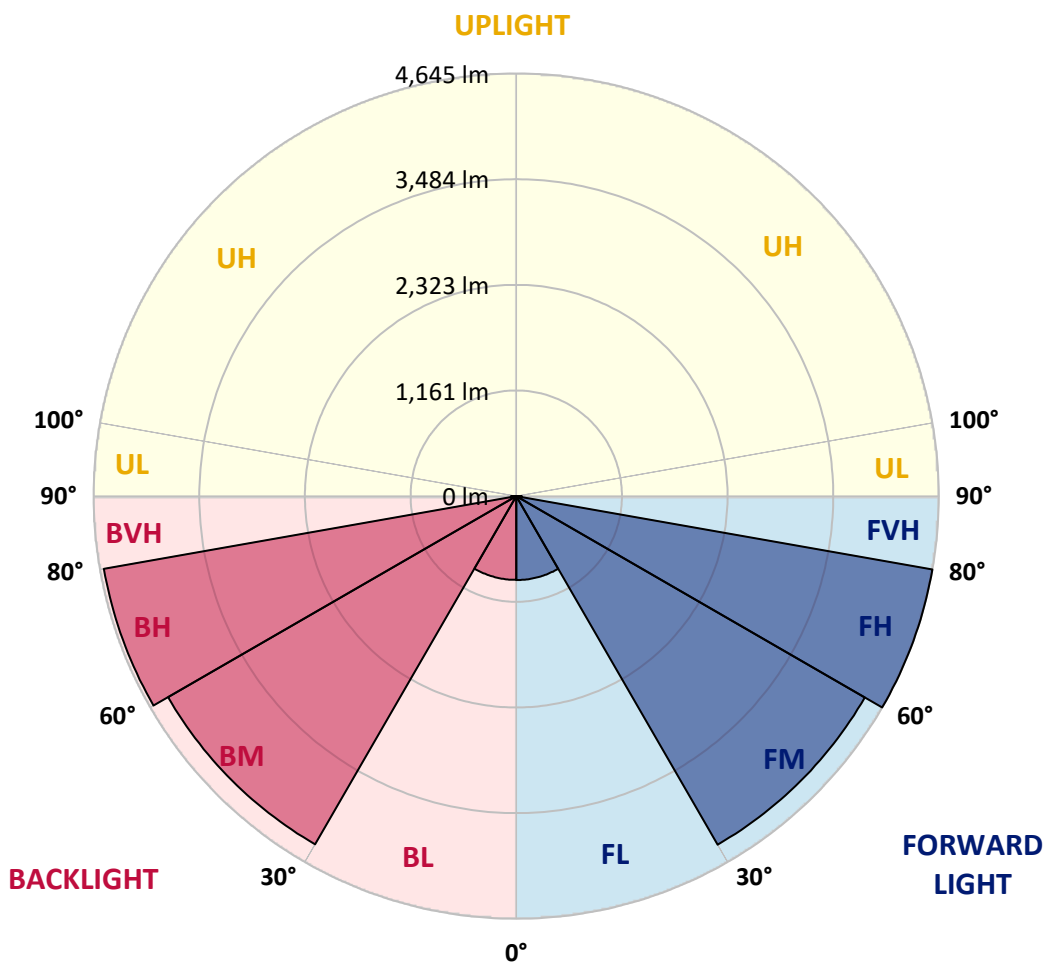
CATALOG NUMBER: IFLD-S-SA3E-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.4	4.6			
FM (30°-60°)	4424.1	22.1			
FH (60°-80°)	4645.1	23.2			G2/5000
FVH (80°-90°)	61.9	0.3			G1/100
BL (0°-30°)	920.5	4.6	B2/1000		
BM (30°-60°)	4419.3	22.0	B3/5000		
BH (60°-80°)	4603.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	59.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479174
 CATALOG NUMBER: IFLD-S-SA3E-722-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7
2.5°	2140.4	2165.5	2183.9	2181.6	2188.4	2195.3	2186.1	2199.9	2190.7	2206.7	2215.9
5°	2181.6	2174.7	2177.0	2163.2	2195.3	2158.7	2158.7	2177.0	2199.9	2172.4	2188.4
7.5°	2156.4	2151.8	2140.4	2161.0	2167.8	2167.8	2186.1	2151.8	2190.7	2199.9	2202.2
10°	2128.9	2103.7	2138.1	2158.7	2163.2	2126.6	2142.6	2151.8	2140.4	2151.8	2158.7
12.5°	2106.0	2119.8	2119.8	2119.8	2112.9	2138.1	2154.1	2151.8	2128.9	2149.5	2112.9
15°	2103.7	2096.9	2117.5	2135.8	2124.3	2128.9	2135.8	2156.4	2112.9	2122.0	2122.0
17.5°	2101.4	2110.6	2117.5	2115.2	2154.1	2154.1	2147.2	2133.5	2167.8	2149.5	2124.3
20°	2110.6	2103.7	2122.0	2128.9	2156.4	2211.3	2190.7	2179.3	2161.0	2138.1	2138.1
22.5°	2122.0	2117.5	2142.6	2172.4	2225.1	2238.8	2236.5	2222.8	2190.7	2163.2	2158.7
25°	2163.2	2122.0	2149.5	2206.7	2225.1	2252.5	2270.8	2252.5	2209.0	2215.9	2174.7
27.5°	2225.1	2218.2	2254.8	2293.7	2277.7	2302.9	2286.9	2300.6	2302.9	2268.5	2227.3
30°	2298.3	2277.7	2300.6	2376.1	2383.0	2410.5	2383.0	2346.4	2357.8	2328.1	2307.5
32.5°	2403.6	2396.7	2440.2	2490.6	2499.8	2486.0	2472.3	2492.9	2444.8	2421.9	2385.3
35°	2472.3	2502.0	2554.7	2593.6	2623.4	2609.6	2616.5	2595.9	2607.3	2559.3	2543.2
37.5°	2676.0	2664.6	2676.0	2742.4	2749.3	2742.4	2749.3	2772.2	2756.1	2714.9	2673.7
40°	2868.3	2850.0	2877.5	2953.0	2948.4	2971.3	2925.5	2950.7	2950.7	2872.9	2856.9
42.5°	3012.5	3074.3	3106.4	3168.2	3191.1	3170.5	3161.3	3165.9	3216.3	3124.7	3090.4
45°	3310.1	3307.8	3404.0	3438.3	3374.2	3369.6	3351.3	3406.3	3440.6	3387.9	3374.2
47.5°	3632.9	3648.9	3703.8	3717.6	3756.5	3685.5	3685.5	3692.4	3813.7	3690.1	3626.0
50°	3923.6	3944.2	4054.1	4161.7	4088.4	4012.9	4042.6	4079.3	4145.7	4028.9	3974.0
52.5°	4276.1	4388.3	4461.6	4518.8	4571.4	4518.8	4450.1	4491.3	4621.8	4466.1	4397.5
55°	4784.3	4873.6	4942.3	5047.6	5091.1	5020.1	5013.2	5008.7	5081.9	4917.1	4823.2
57.5°	5352.0	5315.4	5425.3	5587.8	5745.8	5677.1	5656.5	5661.1	5679.4	5445.9	5374.9
60°	6057.1	6098.3	6228.8	6370.7	6537.8	6634.0	6498.9	6421.1	6437.1	6118.9	6009.0
62.5°	6460.0	6551.6	6846.9	7334.4	7670.9	7970.8	7991.4	7485.5	7146.7	6528.7	6061.7
65°	6265.4	6251.7	6807.9	7709.9	8984.9	9857.1	9726.6	8499.6	7316.1	6334.1	5706.9
67.5°	5329.1	5292.5	5965.5	7396.2	9502.3	11406.8	11258.0	8785.8	6743.8	5603.8	4894.2
70°	3433.7	3424.6	4154.8	5638.2	8483.6	10472.9	10527.8	7980.0	5489.4	4104.4	3401.7
72.5°	1247.6	1323.1	1746.6	3030.8	5761.8	8012.0	8046.4	5908.3	3156.7	1897.7	1398.7
75°	460.1	473.9	551.7	984.3	2625.7	4919.4	5047.6	2866.0	1121.7	618.1	503.6
77.5°	265.5	267.8	295.3	366.3	778.3	1920.6	1998.4	869.9	434.9	329.6	304.5
80°	180.8	178.6	208.3	238.1	311.3	544.8	579.2	364.0	274.7	228.9	192.3
82.5°	105.3	112.2	153.4	169.4	190.0	240.4	244.9	226.6	206.0	169.4	125.9
85°	64.1	52.7	84.7	93.9	109.9	107.6	107.6	123.6	132.8	119.0	71.0
87.5°	16.0	16.0	20.6	22.9	29.8	22.9	25.2	48.1	64.1	59.5	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479174
 CATALOG NUMBER: IFLD-S-SA3E-722-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7	2190.7
2.5°	2195.3	2188.4	2193.0	2218.2	2202.2	2154.1	2165.5	2190.7	2170.1	2158.7	2156.4
5°	2186.1	2199.9	2183.9	2188.4	2204.5	2165.5	2172.4	2204.5	2190.7	2195.3	2170.1
7.5°	2188.4	2195.3	2181.6	2161.0	2161.0	2193.0	2174.7	2179.3	2158.7	2193.0	2147.2
10°	2174.7	2156.4	2140.4	2151.8	2147.2	2138.1	2131.2	2144.9	2124.3	2154.1	2122.0
12.5°	2133.5	2138.1	2133.5	2128.9	2138.1	2161.0	2124.3	2128.9	2096.9	2101.4	2117.5
15°	2117.5	2131.2	2126.6	2151.8	2163.2	2128.9	2156.4	2128.9	2103.7	2090.0	2115.2
17.5°	2124.3	2144.9	2138.1	2156.4	2135.8	2161.0	2165.5	2154.1	2124.3	2112.9	2124.3
20°	2131.2	2124.3	2133.5	2165.5	2195.3	2170.1	2170.1	2163.2	2135.8	2119.8	2119.8
22.5°	2147.2	2135.8	2149.5	2174.7	2183.9	2222.8	2188.4	2172.4	2126.6	2085.4	2124.3
25°	2179.3	2186.1	2195.3	2186.1	2236.5	2231.9	2227.3	2215.9	2144.9	2147.2	2140.4
27.5°	2241.1	2202.2	2213.6	2268.5	2275.4	2293.7	2270.8	2291.4	2215.9	2218.2	2172.4
30°	2316.6	2275.4	2312.0	2360.1	2357.8	2392.2	2380.7	2385.3	2332.6	2302.9	2241.1
32.5°	2399.0	2394.5	2417.3	2447.1	2458.5	2476.9	2474.6	2474.6	2442.5	2364.7	2376.1
35°	2490.6	2522.6	2550.1	2582.2	2586.7	2609.6	2577.6	2582.2	2550.1	2492.9	2511.2
37.5°	2671.4	2669.2	2698.9	2737.8	2742.4	2724.1	2749.3	2737.8	2694.3	2655.4	2625.7
40°	2882.0	2836.3	2863.7	2955.3	2962.2	2930.1	2927.8	2925.5	2893.5	2808.8	2790.5
42.5°	3065.2	3124.7	3120.1	3149.9	3129.3	3113.2	3170.5	3138.4	3113.2	3024.0	3007.9
45°	3301.0	3319.3	3378.8	3474.9	3376.5	3376.5	3415.4	3390.2	3376.5	3310.1	3248.3
47.5°	3594.0	3610.0	3729.0	3735.9	3671.8	3628.3	3749.6	3754.2	3697.0	3646.6	3571.1
50°	3937.3	3944.2	4051.8	4161.7	4090.7	4008.3	4131.9	4180.0	4051.8	3983.1	3889.3
52.5°	4315.1	4294.4	4383.7	4589.7	4521.1	4495.9	4628.7	4640.1	4466.1	4358.5	4383.7
55°	4750.0	4722.5	4965.2	5104.8	5061.3	5015.5	5075.0	5102.5	4962.9	4786.6	4848.4
57.5°	5313.1	5326.9	5448.2	5585.5	5656.5	5667.9	5695.4	5667.9	5526.0	5347.5	5290.2
60°	5876.3	5917.5	6153.2	6411.9	6434.8	6636.3	6599.6	6462.3	6260.8	6006.7	6018.2
62.5°	6084.6	6050.2	6430.2	7062.0	7600.0	7968.5	7806.0	7318.4	6851.4	6389.0	6423.4
65°	5665.7	5750.3	6267.7	7256.6	8424.1	9882.3	9017.0	7668.7	6725.5	6128.1	6061.7
67.5°	4882.8	4946.9	5603.8	6647.7	8719.4	11058.9	9474.8	7174.2	5931.2	5157.5	5198.7
70°	3401.7	3433.7	4077.0	5445.9	7906.7	10436.2	8547.7	5510.0	4095.3	3264.3	3310.1
72.5°	1368.9	1446.7	1870.2	3280.4	5837.3	7929.6	5754.9	2891.2	1698.6	1263.6	1146.9
75°	505.9	508.2	597.5	1128.6	2772.2	4983.5	2595.9	929.4	542.5	444.1	423.5
77.5°	293.0	290.7	311.3	407.5	803.5	1945.8	737.1	364.0	295.3	265.5	254.1
80°	183.1	180.8	212.9	270.1	352.5	533.4	311.3	226.6	199.2	171.7	171.7
82.5°	116.7	119.0	167.1	199.2	215.2	235.8	180.8	160.2	148.8	98.4	96.1
85°	75.5	68.7	116.7	132.8	119.0	105.3	100.7	84.7	77.8	48.1	52.7
87.5°	34.3	36.6	59.5	66.4	43.5	25.2	25.2	18.3	18.3	11.4	11.4
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)