

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: P481435

Luminaire Tested: **IFLD-S-SA3D-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

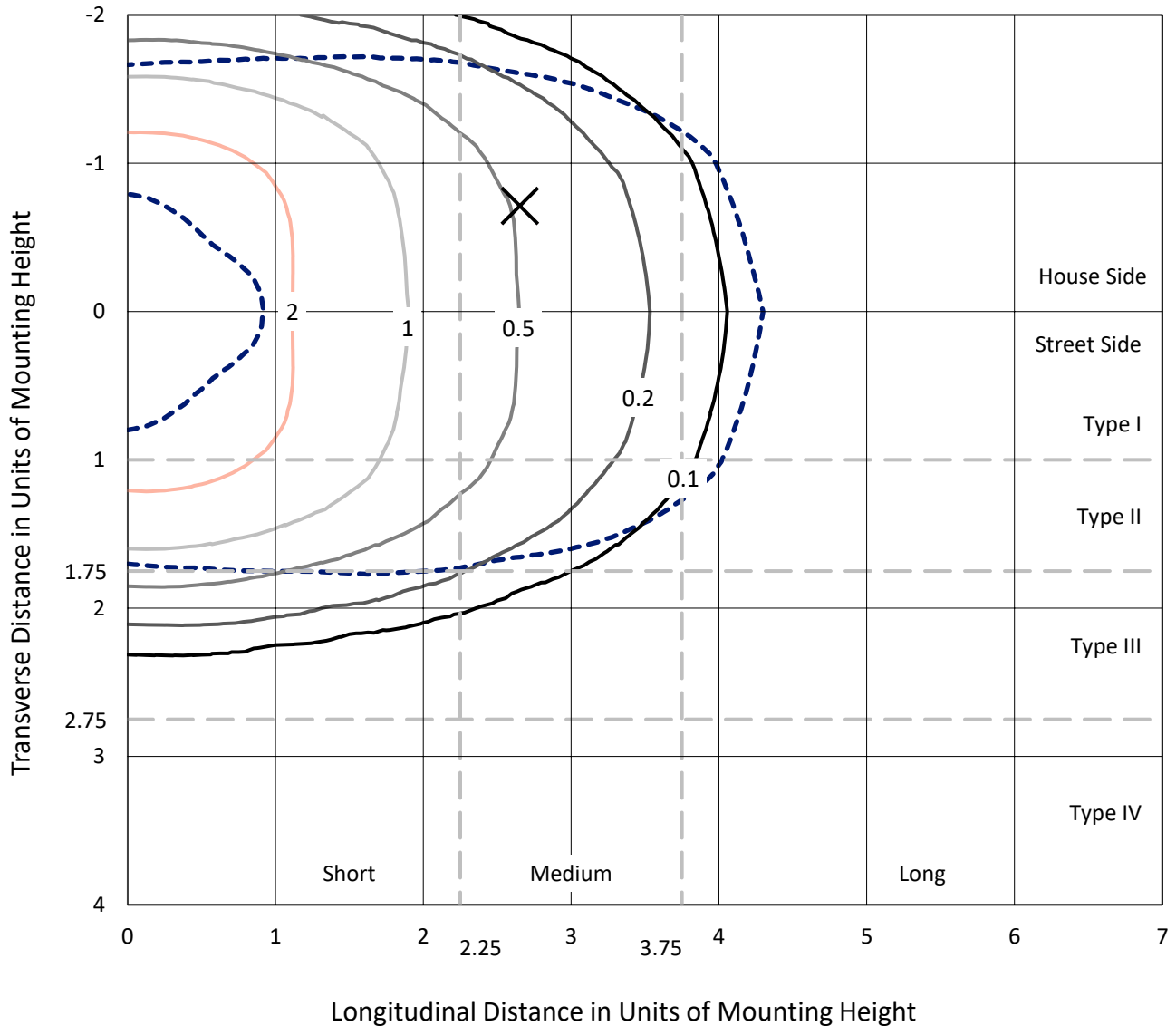
Lumens per Lamp: N/A
Luminaire Lumens: 19075.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1
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

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Iso-Footcandle Lines of Horizontal Illumination

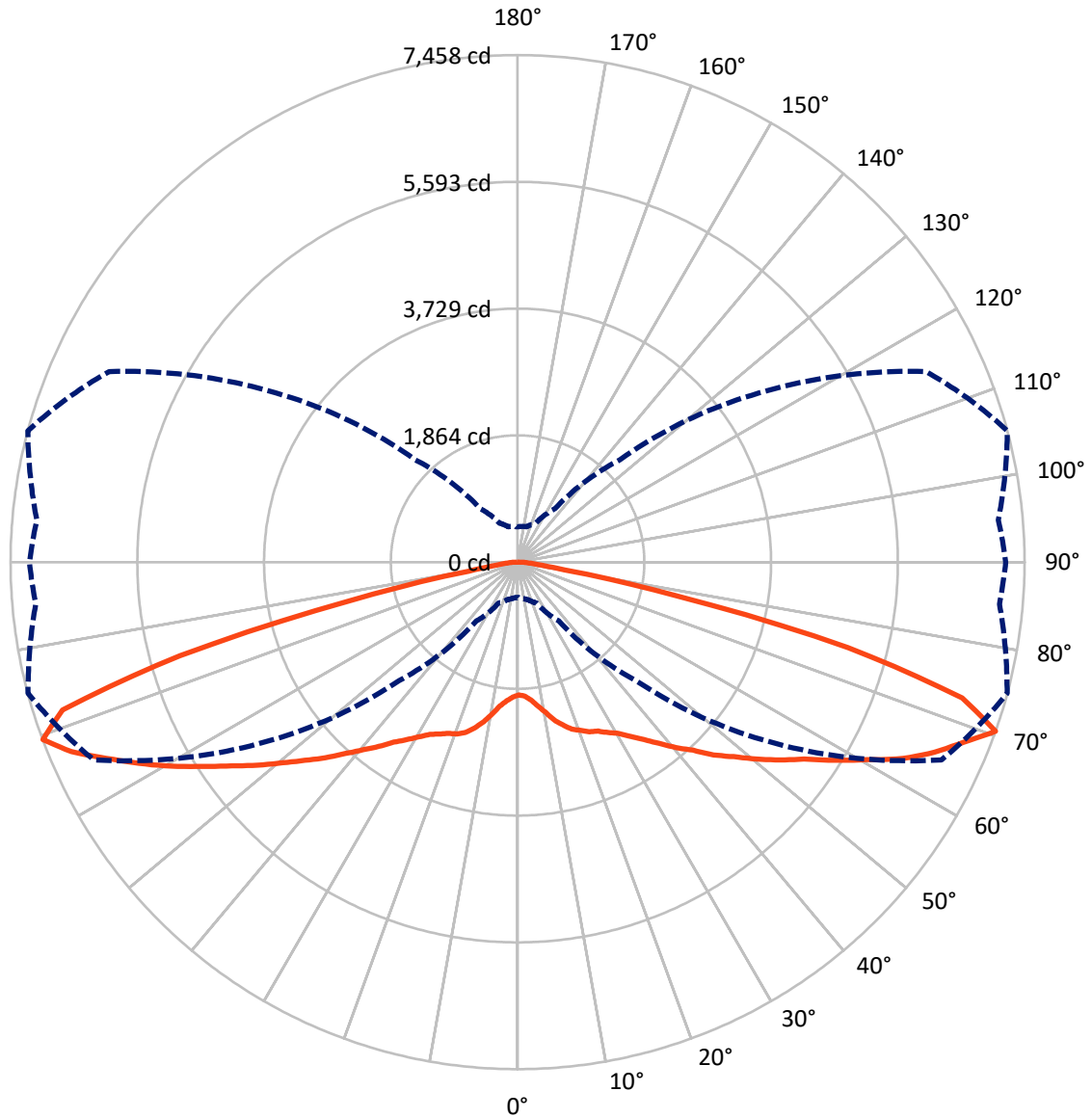
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9470.1	0.0	9470.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9605.8	0.0	9605.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	19075.8	0.0	19075.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	1.0
10°-20°	662.0	3.5
20°-30°	1281.8	6.7
30°-40°	2168.1	11.4
40°-50°	3458.8	18.1
50°-60°	4734.4	24.8
60°-70°	4462.5	23.4
70°-80°	1965.8	10.3
80°-90°	147.9	0.8
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°	19075.8	100.0
0°-180°	19075.8	100.0

Coefficient of Utilization

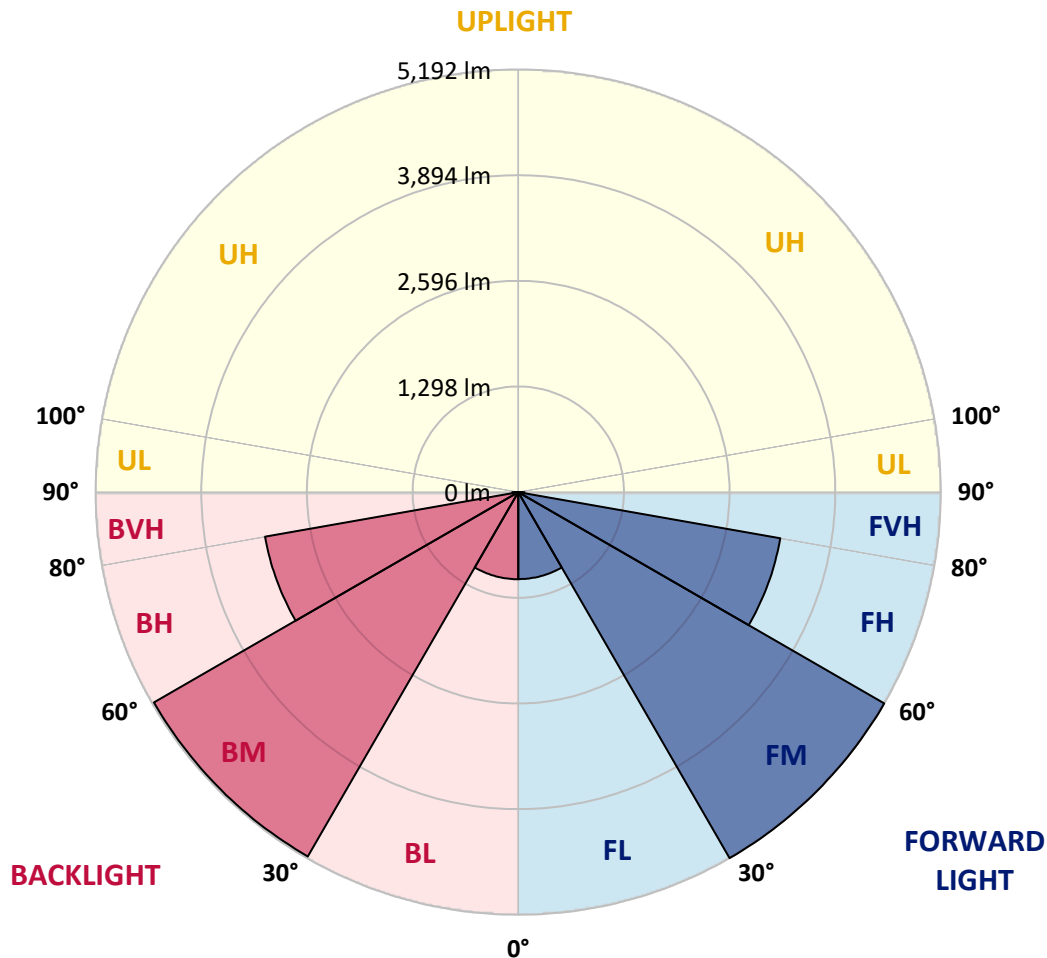


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.6	5.6			
FM (30°-60°)	5192.3	27.2			
FH (60°-80°)	3269.4	17.1			G2/5000
FVH (80°-90°)	75.6	0.4			G1/100
BL (0°-30°)	1069.7	5.6	B3/2500		
BM (30°-60°)	5169.1	27.1	B4/8500		
BH (60°-80°)	3158.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	72.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3
2.5°	1941.0	1941.0	1939.0	1949.2	1959.5	1963.6	1971.9	1973.9	1986.2	1976.0	1996.5
5°	1934.8	1932.8	1949.2	1973.9	1973.9	2000.6	2017.1	2039.7	2045.9	2058.2	2062.3
7.5°	1978.0	1973.9	1965.7	1992.4	2015.0	2056.2	2078.8	2117.8	2132.2	2148.7	2167.2
10°	2004.8	2004.8	1996.5	2043.8	2064.4	2119.9	2169.2	2208.3	2263.8	2282.3	2284.4
12.5°	2008.9	2015.0	2039.7	2101.4	2159.0	2230.9	2267.9	2342.0	2397.5	2432.4	2444.8
15°	2070.5	2058.2	2084.9	2169.2	2253.5	2317.3	2383.1	2436.5	2516.7	2562.0	2590.8
17.5°	2126.1	2113.7	2163.1	2263.8	2350.2	2448.9	2506.5	2564.0	2621.6	2662.7	2664.8
20°	2214.5	2224.8	2267.9	2376.9	2490.0	2576.4	2642.2	2652.4	2681.2	2740.9	2730.6
22.5°	2323.5	2315.2	2405.7	2525.0	2648.3	2720.3	2757.3	2730.6	2716.2	2779.9	2794.3
25°	2432.4	2457.1	2539.4	2650.4	2798.4	2895.1	2905.3	2831.3	2777.9	2800.5	2794.3
27.5°	2599.0	2603.1	2689.5	2821.0	2971.1	3055.4	3049.3	2944.4	2841.6	2843.7	2847.8
30°	2812.8	2792.3	2886.8	3006.1	3154.1	3230.2	3240.5	3090.4	2952.6	2911.5	2921.8
32.5°	3018.4	3043.1	3125.4	3261.1	3370.0	3413.2	3390.6	3257.0	3078.1	3022.5	3028.7
35°	3281.6	3277.5	3390.6	3505.7	3588.0	3596.2	3577.7	3382.4	3213.8	3141.8	3113.0
37.5°	3563.3	3600.3	3674.4	3768.9	3855.3	3859.4	3758.7	3602.4	3394.7	3275.5	3310.4
40°	3877.9	3919.0	3972.5	4110.3	4174.0	4108.2	4005.4	3793.6	3577.7	3472.8	3489.3
42.5°	4155.5	4174.0	4283.0	4445.4	4476.3	4447.5	4295.3	4038.3	3787.4	3672.3	3680.5
45°	4410.5	4435.1	4577.0	4723.0	4795.0	4745.6	4568.8	4324.1	4032.1	3933.4	3894.4
47.5°	4644.9	4694.2	4832.0	4982.1	5093.1	5097.2	4879.3	4583.2	4274.7	4145.2	4143.2
50°	4803.2	4875.1	5010.9	5181.5	5343.9	5407.7	5189.7	4871.0	4540.0	4402.2	4387.8
52.5°	4889.5	4963.6	5099.3	5364.5	5545.5	5644.1	5541.3	5140.4	4850.5	4706.5	4683.9
55°	4784.7	4834.0	5056.1	5428.3	5707.9	5870.3	5802.5	5512.6	5158.9	5041.7	5062.3
57.5°	4338.5	4441.3	4714.8	5179.5	5703.8	6102.7	6096.5	5864.2	5514.6	5403.6	5407.7
60°	3571.5	3657.9	3995.1	4644.9	5473.5	6197.3	6415.2	6205.5	5913.5	5784.0	5779.9
62.5°	2520.8	2629.8	3020.5	3729.9	4795.0	6065.7	6781.2	6635.2	6304.2	6209.6	6244.5
65°	1410.5	1476.3	1838.2	2479.7	3653.8	5341.9	6847.0	7081.4	6701.0	6557.1	6563.2
67.5°	754.6	779.3	947.9	1301.5	2235.0	4118.5	6182.9	7338.4	7130.7	6882.0	6842.9
70°	518.2	526.4	569.6	666.2	1056.9	2463.3	4663.4	6879.9	7453.6	7114.3	7180.1
72.5°	438.0	433.8	444.1	454.4	553.1	1102.1	2736.7	5294.6	7036.2	6908.7	6884.0
75°	380.4	378.3	382.4	372.2	384.5	485.3	1211.1	3300.1	5150.7	5749.0	5841.5
77.5°	314.6	316.6	318.7	308.4	304.3	320.8	487.3	1449.6	2535.2	2798.4	3018.4
80°	238.5	242.6	259.1	248.8	232.3	234.4	287.9	485.3	727.9	660.0	680.6
82.5°	162.4	164.5	199.4	187.1	174.8	158.3	185.1	250.9	283.7	215.9	189.2
85°	115.1	113.1	129.5	119.3	111.0	80.2	111.0	141.9	170.7	106.9	96.6
87.5°	26.7	26.7	53.5	43.2	41.1	32.9	43.2	55.5	74.0	47.3	43.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3	1953.3
2.5°	1990.4	1971.9	1971.9	1967.7	1951.3	1947.2	1932.8	1936.9	1926.6	1916.3
5°	2060.3	2035.6	2035.6	2000.6	1967.7	1963.6	1947.2	1947.2	1930.7	1934.8
7.5°	2156.9	2134.3	2097.3	2066.4	2021.2	2002.7	1971.9	1967.7	1963.6	1955.4
10°	2272.1	2243.3	2206.3	2142.5	2105.5	2070.5	2039.7	1996.5	1986.2	1988.3
12.5°	2428.3	2383.1	2302.9	2247.4	2200.1	2154.9	2109.6	2045.9	2031.5	2037.7
15°	2539.4	2481.8	2401.6	2381.0	2317.3	2261.8	2187.7	2115.8	2091.1	2084.9
17.5°	2629.8	2582.5	2535.2	2504.4	2453.0	2385.1	2282.3	2200.1	2144.6	2138.4
20°	2703.8	2642.2	2631.9	2650.4	2586.6	2541.4	2416.0	2315.2	2241.2	2210.4
22.5°	2749.1	2710.0	2738.8	2755.2	2751.1	2675.1	2545.5	2428.3	2335.8	2307.0
25°	2798.4	2753.2	2856.0	2911.5	2925.9	2800.5	2699.7	2545.5	2455.1	2436.5
27.5°	2823.1	2839.6	2958.8	3076.0	3065.7	2969.1	2833.4	2695.6	2623.7	2590.8
30°	2895.1	2921.8	3102.7	3234.3	3236.4	3141.8	3039.0	2882.7	2802.5	2788.1
32.5°	3024.6	3057.5	3250.8	3390.6	3415.3	3343.3	3240.5	3143.9	3061.6	3028.7
35°	3123.3	3207.6	3425.6	3553.0	3618.8	3575.7	3518.1	3417.3	3331.0	3302.2
37.5°	3265.2	3382.4	3592.1	3764.8	3838.8	3834.7	3791.6	3682.6	3610.6	3585.9
40°	3468.7	3585.9	3777.2	4005.4	4143.2	4137.0	4112.3	4028.0	3921.1	3908.8
42.5°	3684.6	3781.3	4030.1	4291.2	4488.6	4468.0	4402.2	4303.5	4229.5	4213.1
45°	3894.4	4044.5	4274.7	4609.9	4757.9	4809.3	4731.2	4562.6	4478.3	4468.0
47.5°	4157.5	4276.8	4564.7	4864.9	5084.9	5093.1	4959.4	4803.2	4649.0	4681.9
50°	4391.9	4550.3	4842.2	5171.2	5434.4	5339.8	5169.2	4973.8	4862.8	4819.6
52.5°	4642.8	4836.1	5175.3	5510.5	5656.5	5561.9	5284.3	5066.4	4897.8	4879.3
55°	5008.8	5109.5	5553.7	5810.7	5858.0	5658.5	5249.4	4940.9	4723.0	4669.5
57.5°	5381.0	5498.2	5886.8	6108.8	6059.5	5605.1	5023.2	4546.2	4260.4	4184.3
60°	5757.2	5901.2	6228.1	6431.7	6176.7	5237.0	4383.7	3768.9	3435.8	3368.0
62.5°	6176.7	6363.8	6655.8	6727.7	5829.2	4509.1	3479.0	2720.3	2383.1	2270.0
65°	6548.9	6740.1	7099.9	6666.1	5091.0	3363.9	2249.4	1554.5	1305.7	1215.2
67.5°	6855.2	7071.1	7247.9	5899.1	3727.8	1969.8	1172.0	818.4	725.8	692.9
70°	7097.8	7457.7	6631.1	4336.4	2130.2	960.2	633.3	538.7	526.4	518.2
72.5°	6886.1	6838.8	4951.2	2502.3	933.5	528.4	458.5	444.1	442.1	444.1
75°	5631.8	5023.2	2960.9	1087.7	468.8	382.4	380.4	374.2	384.5	384.5
77.5°	2732.6	2389.3	1237.8	466.7	308.4	300.2	310.5	310.5	310.5	310.5
80°	633.3	701.1	442.1	283.7	224.1	224.1	246.7	248.8	238.5	234.4
82.5°	215.9	287.9	242.6	178.9	148.0	166.5	187.1	191.2	158.3	160.4
85°	106.9	168.6	131.6	102.8	76.1	102.8	121.3	127.5	109.0	104.9
87.5°	49.3	74.0	49.3	35.0	26.7	37.0	35.0	28.8	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)