

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: P481123

Luminaire Tested: **IFLD-S-SA3D-722-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481123  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

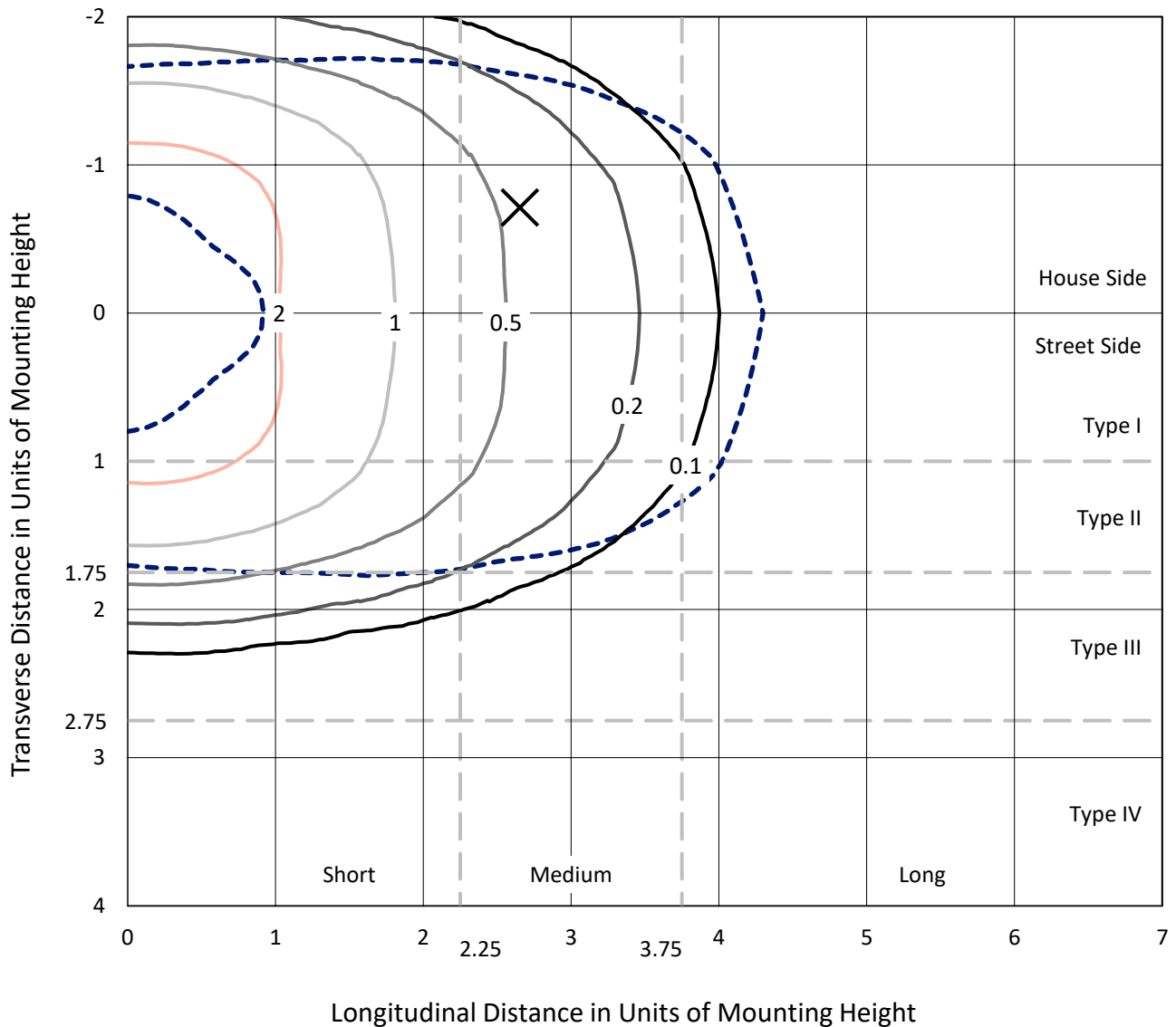
Lumens per Lamp: N/A  
Luminaire Lumens: 17683.4 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

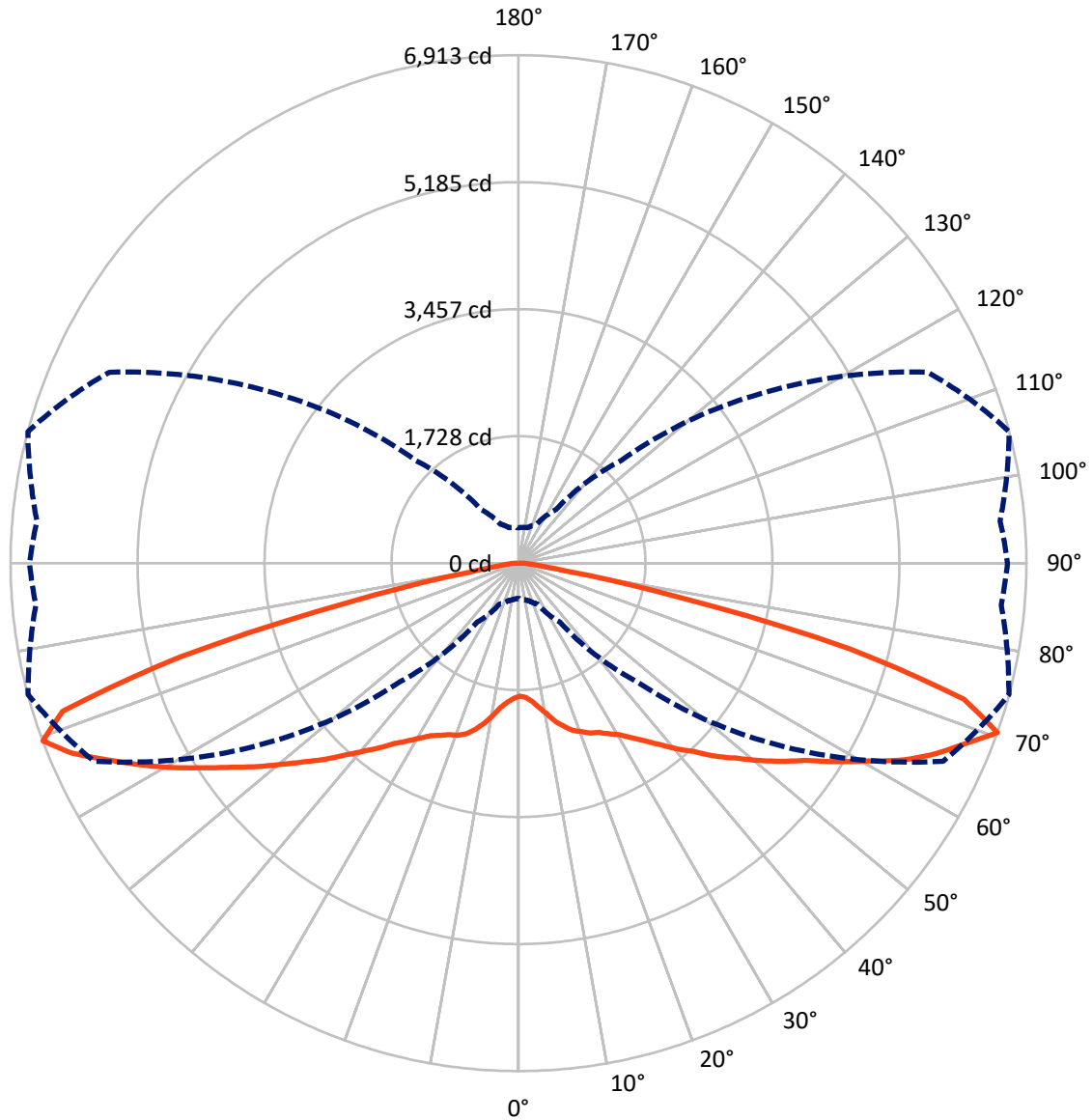
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
<b>House Side</b>	Lumens	8778.8	0.0	8778.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	8904.6	0.0	8904.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	17683.4	0.0	17683.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	613.7	3.5
20°-30°	1188.3	6.7
30°-40°	2009.9	11.4
40°-50°	3206.4	18.1
50°-60°	4388.8	24.8
60°-70°	4136.7	23.4
70°-80°	1822.4	10.3
80°-90°	137.1	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°	17683.4	100.0
0°-180°	17683.4	100.0

**Coefficient of Utilization**



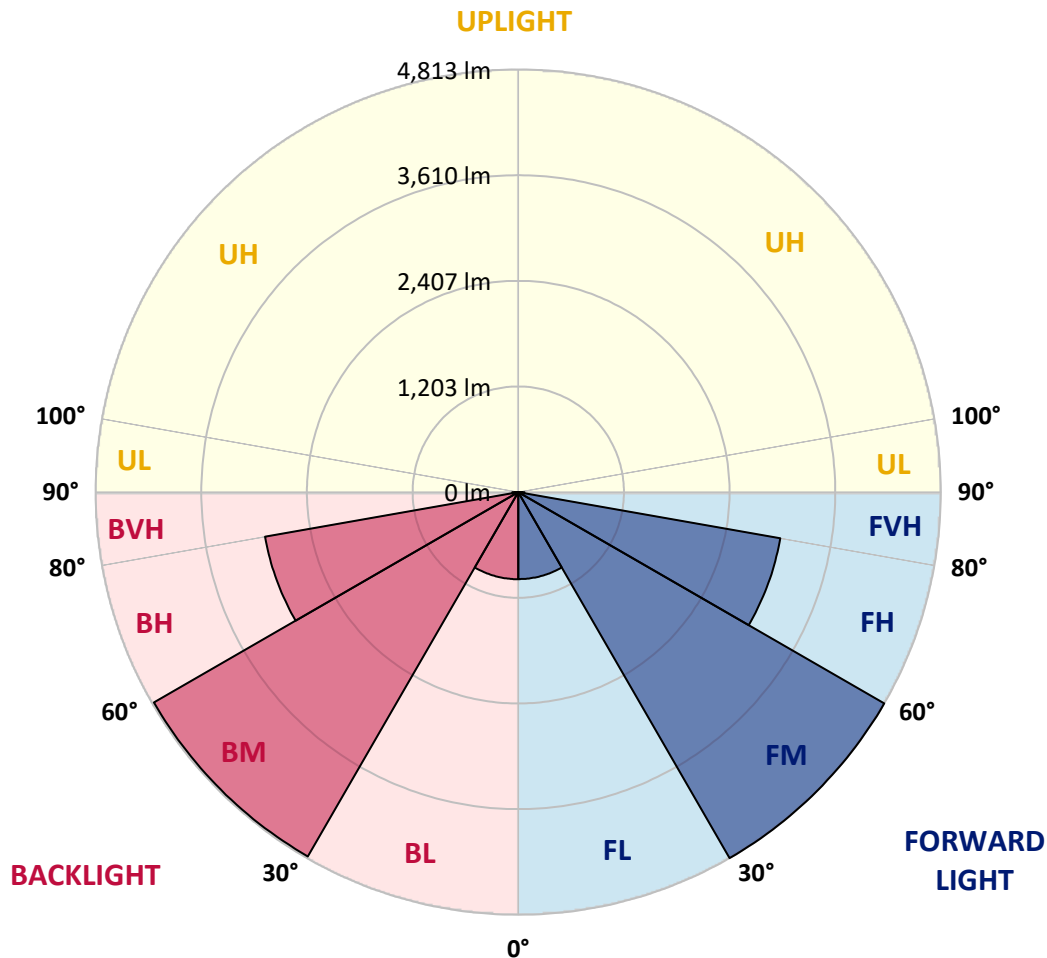
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.6	5.6			
FM (30°-60°)	4813.3	27.2			
FH (60°-80°)	3030.7	17.1			G2/5000
FVH (80°-90°)	70.0	0.4			G1/100
BL (0°-30°)	991.6	5.6	B2/1000		
BM (30°-60°)	4791.8	27.1	B3/5000		
BH (60°-80°)	2928.3	16.6	B4/5000		G4/5000
BVH (80°-90°)	67.1	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°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1799.3	1799.3	1797.4	1807.0	1816.5	1820.3	1827.9	1829.8	1841.3	1831.7	1850.8
5°	1793.6	1791.7	1807.0	1829.8	1829.8	1854.6	1869.9	1890.8	1896.5	1908.0	1911.8
7.5°	1833.6	1829.8	1822.2	1847.0	1868.0	1906.1	1927.0	1963.3	1976.6	1991.8	2009.0
10°	1858.4	1858.4	1850.8	1894.6	1913.7	1965.2	2010.9	2047.1	2098.6	2115.7	2117.6
12.5°	1862.2	1868.0	1890.8	1948.0	2001.4	2068.1	2102.4	2171.0	2222.5	2254.9	2266.3
15°	1919.4	1908.0	1932.8	2010.9	2089.1	2148.1	2209.1	2258.7	2333.0	2375.0	2401.7
17.5°	1970.9	1959.4	2005.2	2098.6	2178.6	2270.1	2323.5	2376.9	2430.2	2468.4	2470.3
20°	2052.8	2062.4	2102.4	2203.4	2308.3	2388.3	2449.3	2458.8	2485.5	2540.8	2531.3
22.5°	2153.9	2146.2	2230.1	2340.7	2455.0	2521.7	2556.0	2531.3	2517.9	2577.0	2590.4
25°	2254.9	2277.8	2354.0	2456.9	2594.2	2683.7	2693.3	2624.7	2575.1	2596.1	2590.4
27.5°	2409.3	2413.1	2493.1	2615.1	2754.3	2832.4	2826.7	2729.5	2634.2	2636.1	2639.9
30°	2607.5	2588.4	2676.1	2786.7	2923.9	2994.4	3004.0	2864.8	2737.1	2699.0	2708.5
32.5°	2798.1	2821.0	2897.2	3023.0	3124.1	3164.1	3143.1	3019.2	2853.4	2801.9	2807.6
35°	3042.1	3038.3	3143.1	3249.9	3326.1	3333.7	3316.6	3135.5	2979.2	2912.5	2885.8
37.5°	3303.2	3337.5	3406.1	3493.8	3573.9	3577.7	3484.3	3339.4	3146.9	3036.4	3068.8
40°	3594.9	3633.0	3682.5	3810.2	3869.3	3808.3	3713.0	3516.7	3316.6	3219.4	3234.6
42.5°	3852.2	3869.3	3970.3	4120.9	4149.5	4122.8	3981.8	3743.5	3511.0	3404.2	3411.9
45°	4088.5	4111.4	4242.9	4378.2	4445.0	4399.2	4235.3	4008.5	3737.8	3646.3	3610.1
47.5°	4305.8	4351.6	4479.3	4618.4	4721.3	4725.2	4523.1	4248.6	3962.7	3842.6	3840.7
50°	4452.6	4519.3	4645.1	4803.3	4953.9	5013.0	4810.9	4515.5	4208.6	4080.9	4067.6
52.5°	4532.6	4601.3	4727.1	4972.9	5140.7	5232.2	5136.9	4765.2	4496.4	4363.0	4342.0
55°	4435.4	4481.2	4687.0	5032.0	5291.3	5441.8	5378.9	5110.2	4782.3	4673.7	4692.7
57.5°	4021.8	4117.1	4370.6	4801.4	5287.4	5657.2	5651.5	5436.1	5112.1	5009.2	5013.0
60°	3310.8	3390.9	3703.5	4305.8	5074.0	5744.9	5946.9	5752.5	5481.9	5361.8	5358.0
62.5°	2336.8	2437.9	2800.0	3457.6	4445.0	5622.9	6286.2	6150.9	5844.0	5756.3	5788.7
65°	1307.6	1368.6	1704.0	2298.7	3387.1	4952.0	6347.2	6564.5	6211.9	6078.5	6084.2
67.5°	699.5	722.4	878.7	1206.5	2071.9	3817.9	5731.6	6802.8	6610.3	6379.6	6343.4
70°	480.3	488.0	528.0	617.6	979.7	2283.5	4323.0	6377.7	6909.5	6595.0	6656.0
72.5°	406.0	402.2	411.7	421.2	512.7	1021.7	2537.0	4908.1	6522.6	6404.4	6381.5
75°	352.6	350.7	354.5	345.0	356.4	449.8	1122.7	3059.2	4774.7	5329.4	5415.1
77.5°	291.6	293.5	295.4	285.9	282.1	297.3	451.7	1343.8	2350.2	2594.2	2798.1
80°	221.1	224.9	240.2	230.6	215.4	217.3	266.9	449.8	674.7	611.8	630.9
82.5°	150.6	152.5	184.9	173.5	162.0	146.8	171.5	232.5	263.0	200.1	175.4
85°	106.7	104.8	120.1	110.6	102.9	74.3	102.9	131.5	158.2	99.1	89.6
87.5°	24.8	24.8	49.6	40.0	38.1	30.5	40.0	51.5	68.6	43.8	40.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1845.1	1827.9	1827.9	1824.1	1808.9	1805.0	1791.7	1795.5	1786.0	1776.5
5°	1909.9	1887.0	1887.0	1854.6	1824.1	1820.3	1805.0	1805.0	1789.8	1793.6
7.5°	1999.5	1978.5	1944.2	1915.6	1873.7	1856.5	1827.9	1824.1	1820.3	1812.7
10°	2106.2	2079.5	2045.2	1986.1	1951.8	1919.4	1890.8	1850.8	1841.3	1843.2
12.5°	2251.1	2209.1	2134.8	2083.3	2039.5	1997.6	1955.6	1896.5	1883.2	1888.9
15°	2354.0	2300.6	2226.3	2207.2	2148.1	2096.7	2028.1	1961.3	1938.5	1932.8
17.5°	2437.9	2394.0	2350.2	2321.6	2273.9	2211.0	2115.7	2039.5	1988.0	1982.3
20°	2506.5	2449.3	2439.8	2456.9	2397.8	2355.9	2239.6	2146.2	2077.6	2049.0
22.5°	2548.4	2512.2	2538.9	2554.1	2550.3	2479.8	2359.7	2251.1	2165.3	2138.6
25°	2594.2	2552.2	2647.5	2699.0	2712.3	2596.1	2502.7	2359.7	2275.8	2258.7
27.5°	2617.0	2632.3	2742.8	2851.5	2842.0	2752.4	2626.6	2498.9	2432.1	2401.7
30°	2683.7	2708.5	2876.3	2998.3	3000.2	2912.5	2817.2	2672.3	2598.0	2584.6
32.5°	2803.8	2834.3	3013.5	3143.1	3166.0	3099.3	3004.0	2914.4	2838.1	2807.6
35°	2895.3	2973.5	3175.5	3293.7	3354.7	3314.7	3261.3	3167.9	3087.8	3061.2
37.5°	3026.8	3135.5	3329.9	3490.0	3558.6	3554.8	3514.8	3413.8	3347.1	3324.2
40°	3215.5	3324.2	3501.5	3713.0	3840.7	3835.0	3812.1	3734.0	3634.9	3623.4
42.5°	3415.7	3505.3	3735.9	3978.0	4161.0	4141.9	4080.9	3989.4	3920.8	3905.5
45°	3610.1	3749.2	3962.7	4273.4	4410.6	4458.3	4385.9	4229.6	4151.4	4141.9
47.5°	3854.1	3964.6	4231.5	4509.8	4713.7	4721.3	4597.4	4452.6	4309.6	4340.1
50°	4071.4	4218.1	4488.8	4793.8	5037.7	4950.1	4791.9	4610.8	4507.9	4467.8
52.5°	4303.9	4483.1	4797.6	5108.3	5243.6	5155.9	4898.6	4696.6	4540.3	4523.1
55°	4643.2	4736.6	5148.3	5386.6	5430.4	5245.5	4866.2	4580.3	4378.2	4328.7
57.5°	4988.2	5096.8	5457.1	5662.9	5617.2	5196.0	4656.5	4214.3	3949.4	3878.9
60°	5337.0	5470.4	5773.5	5962.2	5725.8	4854.8	4063.7	3493.8	3185.0	3122.1
62.5°	5725.8	5899.3	6170.0	6236.7	5403.7	4180.0	3225.1	2521.7	2209.1	2104.3
65°	6070.8	6248.1	6581.7	6179.5	4719.4	3118.3	2085.2	1441.0	1210.4	1126.5
67.5°	6354.8	6555.0	6718.9	5468.5	3455.7	1826.0	1086.5	758.6	672.8	642.3
70°	6579.8	6913.3	6147.1	4019.9	1974.7	890.1	587.1	499.4	488.0	480.3
72.5°	6383.4	6339.6	4589.8	2319.7	865.4	489.9	425.1	411.7	409.8	411.7
75°	5220.7	4656.5	2744.7	1008.3	434.6	354.5	352.6	346.9	356.4	356.4
77.5°	2533.2	2214.9	1147.5	432.7	285.9	278.3	287.8	287.8	287.8	287.8
80°	587.1	650.0	409.8	263.0	207.8	207.8	228.7	230.6	221.1	217.3
82.5°	200.1	266.9	224.9	165.8	137.2	154.4	173.5	177.3	146.8	148.7
85°	99.1	156.3	122.0	95.3	70.5	95.3	112.5	118.2	101.0	97.2
87.5°	45.7	68.6	45.7	32.4	24.8	34.3	32.4	26.7	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)