

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: P484702

Luminaire Tested: **IFLD-L-SA8D-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484702
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

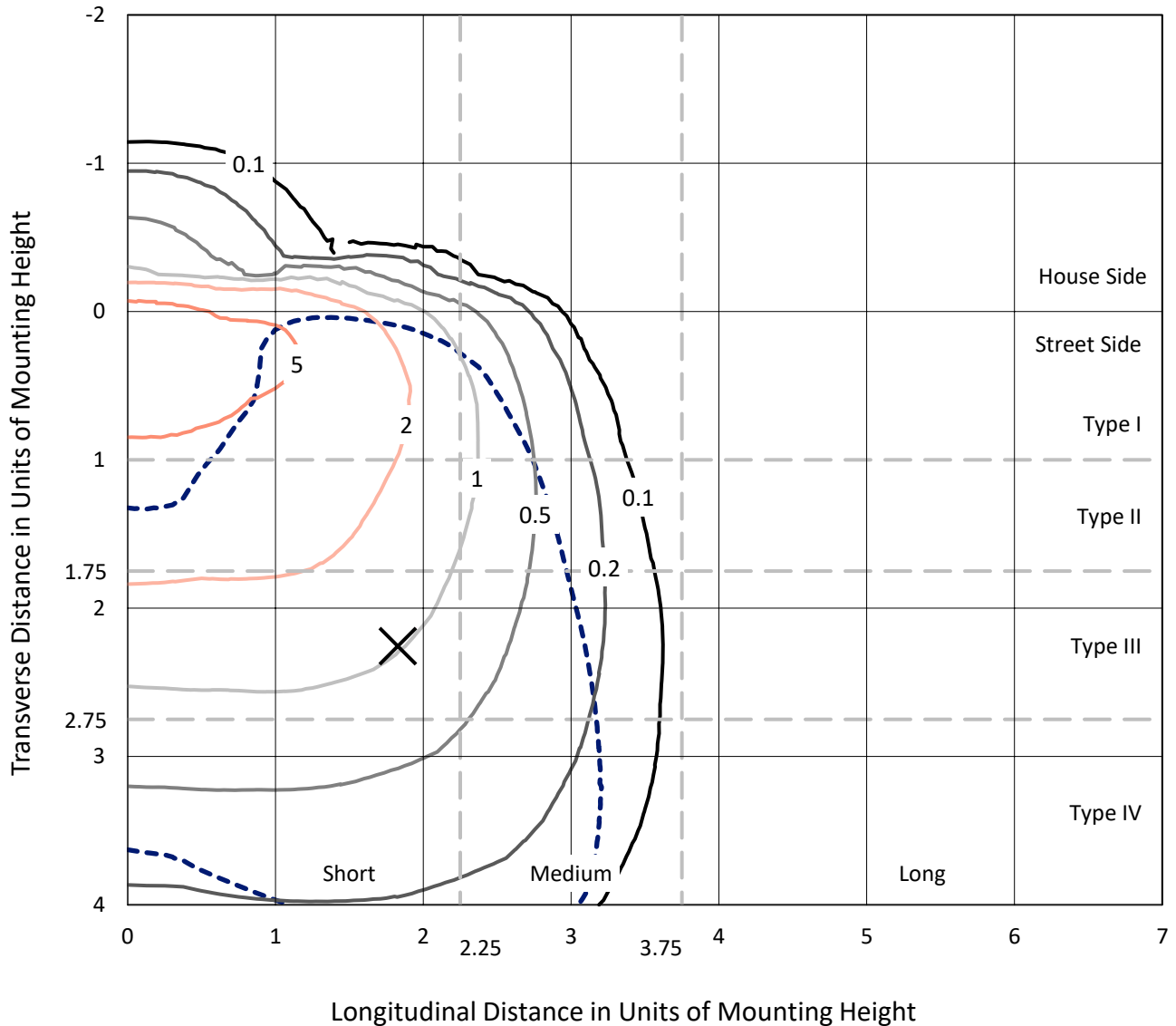
Lumens per Lamp: N/A
Luminaire Lumens: 38515.1 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

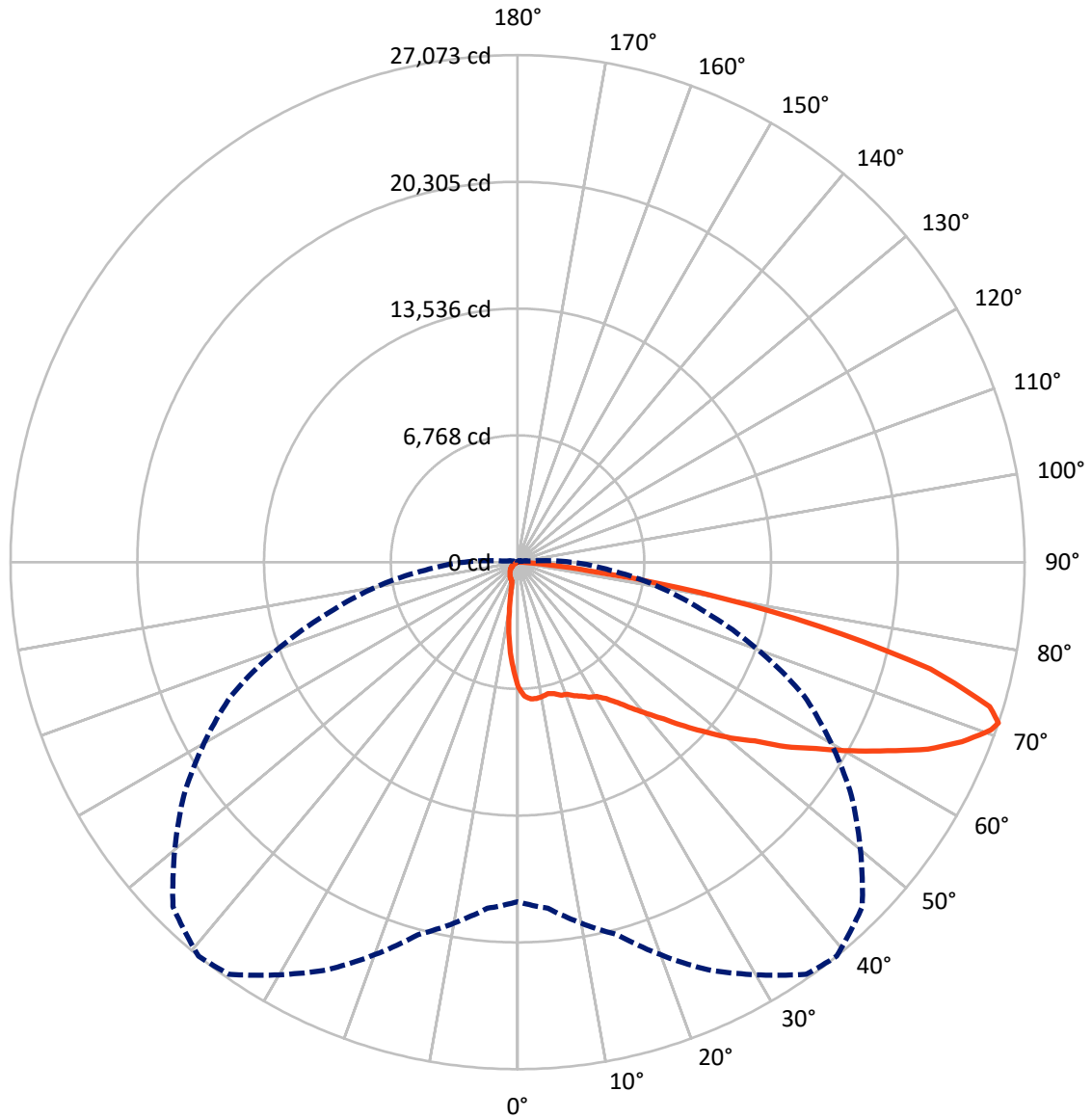
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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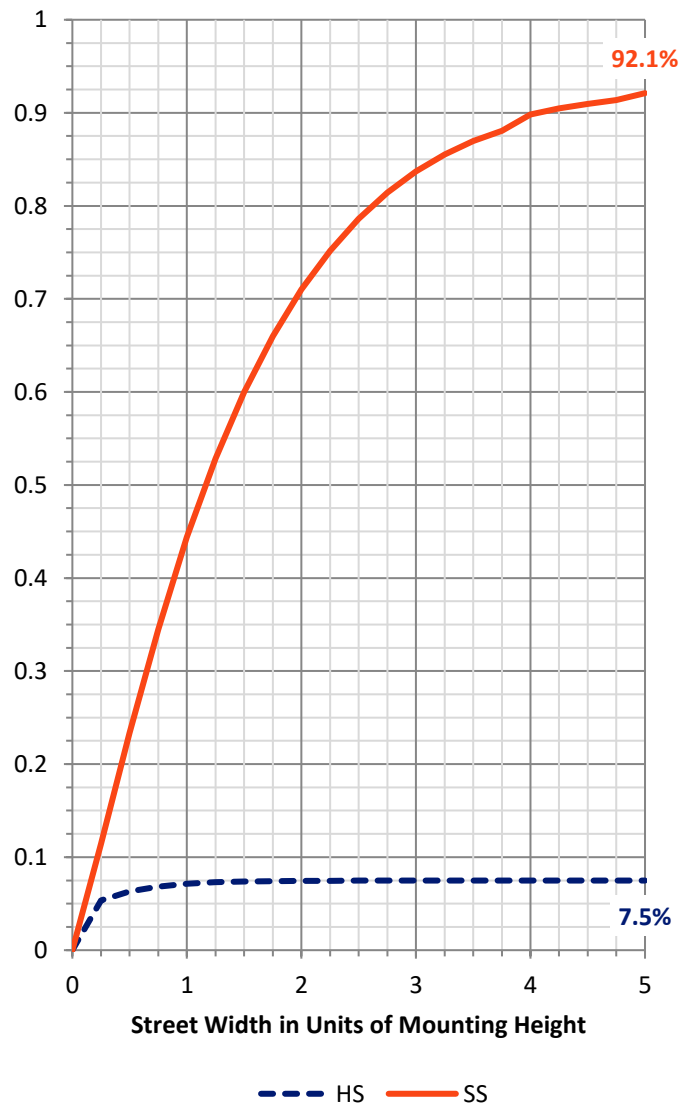
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.6	0.0	2899.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	35615.5	0.0	35615.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	38515.1	0.0	38515.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.5	1.5
10°-20°	1379.5	3.6
20°-30°	2214.6	5.8
30°-40°	3390.1	8.8
40°-50°	5441.6	14.1
50°-60°	7992.9	20.8
60°-70°	10066.7	26.1
70°-80°	6718.3	17.4
80°-90°	750.8	1.9
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°	38515.1	100.0
0°-180°	38515.1	100.0

Coefficient of Utilization



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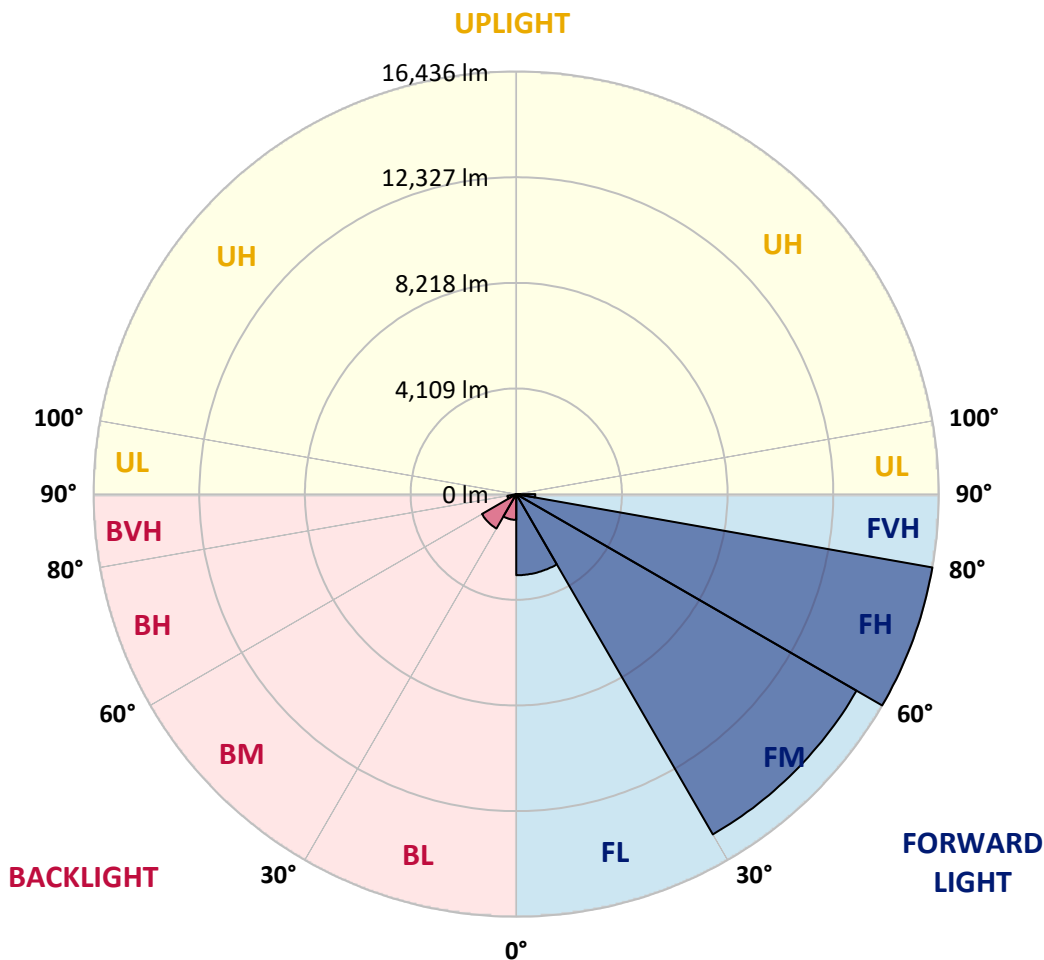
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3153.6	8.2			
FM (30°-60°)	15283.3	39.7			
FH (60°-80°)	16436.0	42.7			G5
FVH (80°-90°)	742.5	1.9			G4/750
BL (0°-30°)	1001.1	2.6	B3/2500		
BM (30°-60°)	1541.2	4.0	B2/2500		
BH (60°-80°)	349.0	0.9	B1/500		G1/500
BVH (80°-90°)	8.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8
2.5°	7224.1	7294.9	7224.1	7193.8	7163.5	7168.6	7087.7	7102.9	7006.9	6880.6	6779.6
5°	7451.5	7547.4	7471.7	7436.3	7431.3	7335.3	7294.9	7198.9	7082.7	6885.7	6764.4
7.5°	7431.3	7411.0	7446.4	7416.1	7350.4	7350.4	7305.0	7168.6	7052.4	6830.1	6623.0
10°	7279.7	7340.3	7310.0	7274.6	7289.8	7294.9	7209.0	7113.0	7077.6	6855.3	6516.9
12.5°	7264.5	7163.5	7274.6	7279.7	7214.0	7209.0	7198.9	7173.6	7062.5	6860.4	6542.1
15°	7214.0	7173.6	7284.8	7289.8	7305.0	7289.8	7305.0	7284.8	7173.6	7057.4	6653.3
17.5°	7254.4	7209.0	7365.6	7441.4	7406.0	7476.7	7451.5	7360.5	7264.5	7128.1	6759.4
20°	7264.5	7330.2	7502.0	7532.3	7643.4	7527.2	7522.2	7426.2	7365.6	7219.1	6825.0
22.5°	7451.5	7481.8	7694.0	7759.6	7764.7	7749.5	7623.2	7512.1	7486.8	7305.0	6840.2
25°	7734.4	7840.5	7936.4	7976.9	7992.0	7921.3	7789.9	7648.5	7587.9	7471.7	6996.8
27.5°	8234.5	8168.8	8254.7	8315.3	8143.6	8168.8	8002.1	7880.9	7795.0	7694.0	7178.7
30°	8679.1	8618.4	8623.5	8613.4	8466.9	8330.5	8285.0	8072.8	7966.7	8007.2	7461.6
32.5°	9078.2	8946.8	9057.9	9007.4	8734.6	8694.2	8658.9	8391.1	8411.3	8598.2	7885.9
35°	9446.9	9401.5	9492.4	9401.5	9219.6	9209.5	9174.1	8941.8	9052.9	9320.6	8613.4
37.5°	9785.4	9800.6	9911.7	9866.2	9881.4	9891.5	9871.3	9623.8	9942.0	10543.2	9462.1
40°	10098.6	10078.4	10351.2	10492.7	10523.0	10634.1	10634.1	10573.5	11063.5	11740.5	10639.2
42.5°	10432.0	10482.6	10836.2	11073.6	11361.6	11457.6	11588.9	11619.2	12377.0	13149.9	11841.5
45°	10977.6	10891.8	11341.4	11902.1	12154.7	12493.2	12695.3	12867.0	13781.4	14842.3	13043.8
47.5°	11669.7	11498.0	11892.0	12705.4	13291.4	13569.2	13933.0	14160.3	15054.5	16150.7	14180.5
50°	12437.6	12260.8	12452.8	13574.3	14256.3	14761.5	15226.2	15514.2	16595.3	17615.8	15009.0
52.5°	13306.5	13144.9	13175.2	14478.6	15483.9	15852.7	16463.9	16893.3	17969.4	18499.8	15302.0
55°	14231.0	14190.6	14094.6	15362.6	16559.9	17388.4	17757.2	18272.5	19378.9	18979.8	15620.3
57.5°	15160.6	15034.3	15170.7	16534.7	18287.7	18782.7	19293.0	19601.1	20161.9	19399.1	15499.0
60°	16034.5	16044.6	16236.6	17807.7	19757.7	20459.9	20919.7	20732.7	20965.1	19580.9	15221.2
62.5°	16772.1	16751.9	17236.9	19237.4	21702.7	22177.6	22521.1	21687.5	21339.0	19757.7	14736.2
65°	17433.9	17661.2	18424.1	20939.9	23531.5	24077.1	23869.9	22591.8	21702.7	19237.4	13372.2
67.5°	17934.0	18272.5	19596.1	22541.3	25208.7	25592.6	25304.7	23278.9	21273.3	17196.5	10891.8
70°	18227.0	18570.6	20434.7	23875.0	26547.4	26825.3	26148.3	22748.4	18767.6	12452.8	6794.7
71°	18136.1	18555.4	20596.3	24016.4	26865.7	27072.8	26022.0	21768.4	16878.2	10427.0	4955.9
72.5°	17312.7	17706.7	19924.5	23915.4	26481.7	26355.4	25036.9	19414.2	13286.3	6648.2	2561.3
75°	12720.5	13144.9	17100.5	20687.3	23637.6	22768.6	20262.9	13624.8	6931.1	2035.9	747.7
77.5°	6335.0	6405.7	10613.9	15019.1	17337.9	16474.0	13579.3	7598.0	2591.6	601.2	373.8
80°	2920.0	2940.2	3980.8	7779.8	10482.6	9866.2	7608.1	3748.5	1172.0	318.3	293.0
82.5°	1990.4	2020.7	2399.6	3223.1	4551.7	3839.4	3081.6	2399.6	671.9	192.0	288.0
85°	363.7	333.4	1343.8	1707.5	1758.0	1192.2	1065.9	2076.3	252.6	111.1	252.6
87.5°	0.0	5.1	186.9	697.2	626.4	277.9	363.7	505.2	25.3	35.4	45.5
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°	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8	6703.8
2.5°	6693.7	6638.1	6451.2	6244.1	6057.2	5910.7	5723.7	5637.9	5501.5	5425.7	5420.6
5°	6597.7	6446.1	6122.8	5774.3	5385.3	5061.9	4703.3	4501.2	4268.8	4198.1	4182.9
7.5°	6436.0	6218.8	5743.9	5253.9	4657.8	4086.9	3647.4	3177.6	2889.7	2768.4	2722.9
10°	6335.0	6072.3	5425.7	4693.2	3859.6	3056.4	2440.0	1939.9	1677.2	1550.9	1520.6
12.5°	6335.0	6052.1	5168.0	4157.7	3051.3	2091.5	1510.5	1222.5	1136.7	1106.4	1106.4
15°	6319.9	6011.7	4920.5	3607.0	2258.2	1404.4	1126.6	1065.9	1055.8	1050.8	1045.7
17.5°	6395.6	5941.0	4667.9	3015.9	1596.4	1106.4	1035.6	1025.5	1015.4	1015.4	1005.3
20°	6451.2	5900.5	4364.8	2389.5	1192.2	1025.5	995.2	980.1	975.0	970.0	980.1
22.5°	6405.7	5839.9	3991.0	1788.4	1040.7	975.0	954.8	939.6	929.5	929.5	934.6
25°	6491.6	5784.4	3617.1	1348.8	975.0	929.5	909.3	899.2	894.2	889.1	879.0
27.5°	6607.8	5809.6	3172.6	1086.1	919.4	884.1	863.9	853.8	848.7	838.6	848.7
30°	6749.3	5804.6	2682.5	949.7	868.9	833.6	813.3	808.3	798.2	793.1	798.2
32.5°	6991.7	5935.9	2177.3	879.0	813.3	783.0	762.8	757.8	752.7	747.7	742.6
35°	7512.1	6097.6	1702.5	823.4	762.8	727.5	712.3	702.2	697.2	692.1	687.1
37.5°	8153.7	6456.3	1298.3	772.9	712.3	676.9	661.8	656.7	636.5	631.5	626.4
40°	8956.9	6840.2	1000.3	717.4	666.8	631.5	616.3	601.2	575.9	565.8	555.7
42.5°	9957.2	7214.0	823.4	666.8	616.3	591.1	565.8	540.5	520.3	500.1	490.0
45°	10957.4	7648.5	722.4	621.4	575.9	545.6	525.4	490.0	454.7	424.4	419.3
47.5°	11791.0	7805.1	661.8	570.9	535.5	510.2	479.9	434.5	383.9	353.6	348.6
50°	12412.4	7714.2	601.2	520.3	490.0	464.8	424.4	368.8	318.3	288.0	277.9
52.5°	12533.6	7315.1	545.6	479.9	444.6	414.3	368.8	308.2	252.6	222.3	217.2
55°	12447.7	6653.3	500.1	444.6	404.1	358.7	308.2	247.5	197.0	166.7	161.7
57.5°	12270.9	5870.2	449.6	399.1	353.6	308.2	252.6	202.1	146.5	116.2	116.2
60°	11669.7	4804.3	399.1	348.6	303.1	262.7	207.1	146.5	101.0	75.8	70.7
62.5°	10831.1	3692.9	348.6	298.1	262.7	217.2	161.7	106.1	60.6	40.4	40.4
65°	9300.4	2586.5	293.0	247.5	217.2	176.8	121.2	65.7	35.4	15.2	15.2
67.5°	7067.5	1601.4	242.5	207.1	186.9	141.5	85.9	40.4	15.2	5.1	0.0
70°	4056.6	833.6	192.0	166.7	146.5	106.1	60.6	20.2	10.1	0.0	0.0
71°	2834.1	616.3	171.8	146.5	131.3	96.0	50.5	15.2	5.1	0.0	0.0
72.5°	1419.6	409.2	146.5	121.2	106.1	75.8	40.4	15.2	5.1	0.0	0.0
75°	505.2	262.7	101.0	80.8	75.8	55.6	25.3	10.1	5.1	0.0	0.0
77.5°	348.6	212.2	70.7	50.5	50.5	35.4	15.2	5.1	5.1	0.0	0.0
80°	318.3	116.2	45.5	30.3	25.3	20.2	10.1	5.1	0.0	0.0	0.0
82.5°	318.3	85.9	25.3	20.2	15.2	10.1	5.1	0.0	0.0	0.0	0.0
85°	222.3	45.5	15.2	15.2	10.1	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	35.4	15.2	10.1	5.1	5.1	0.0	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)