

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: P484969

Luminaire Tested: **IFLD-L-SA7C-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484969
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

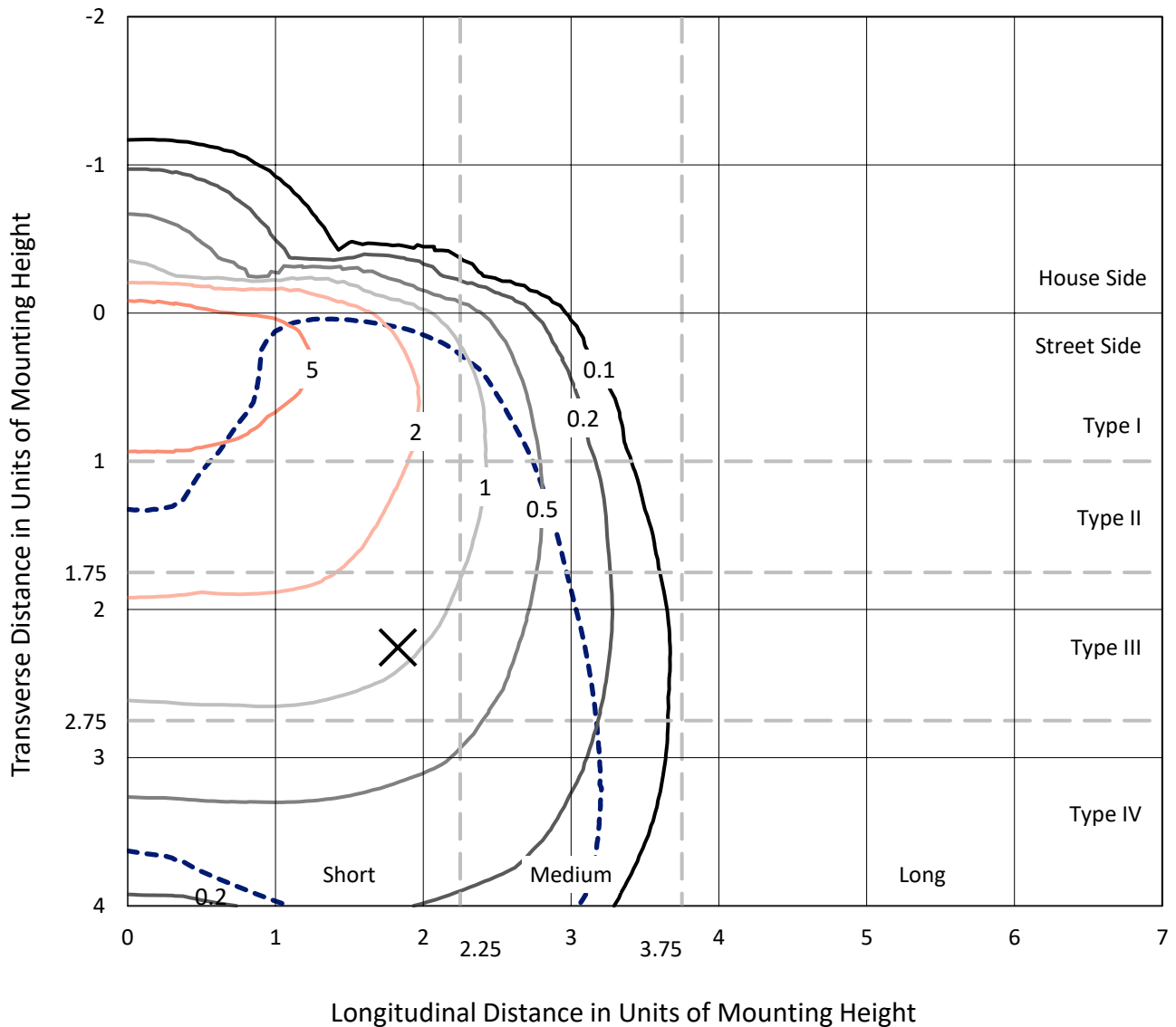
Lumens per Lamp: N/A
Luminaire Lumens: 29100.2 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

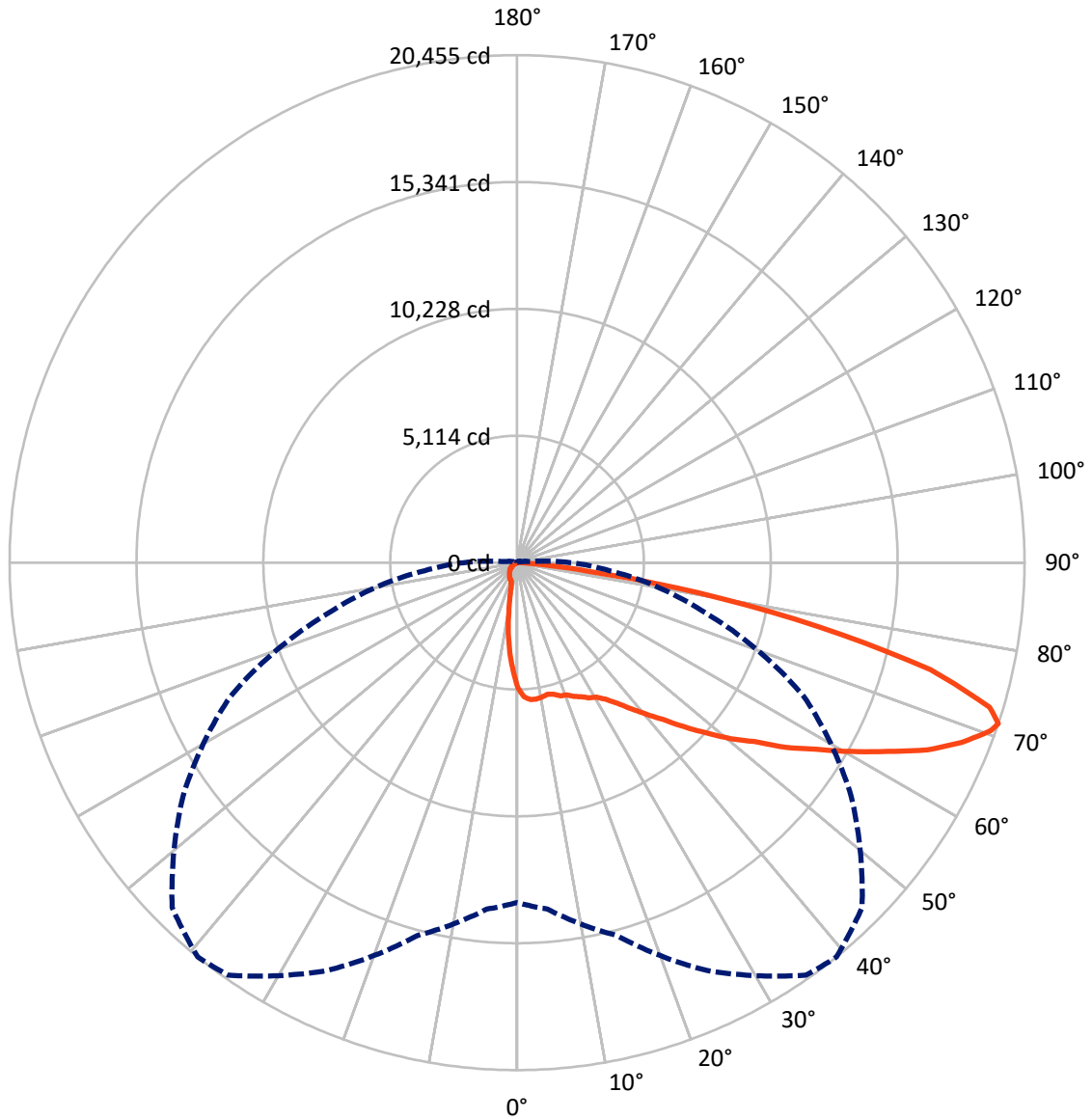
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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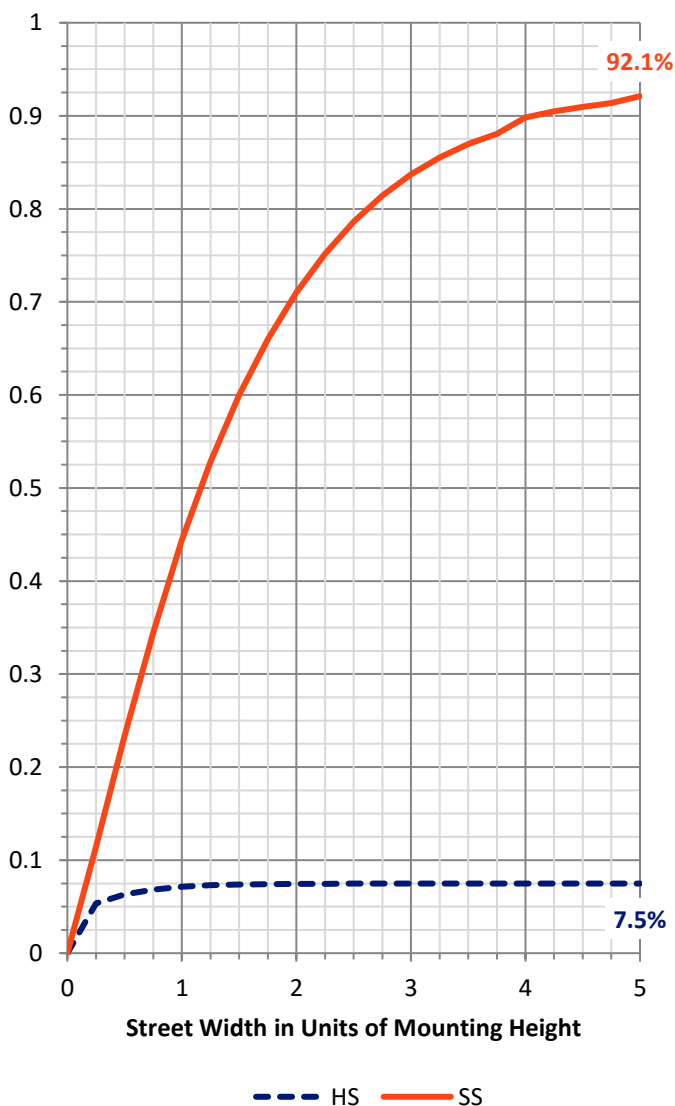
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.8	0.0	2190.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	26909.4	0.0	26909.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	29100.2	0.0	29100.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	1.5
10°-20°	1042.3	3.6
20°-30°	1673.3	5.8
30°-40°	2561.4	8.8
40°-50°	4111.5	14.1
50°-60°	6039.1	20.8
60°-70°	7606.0	26.1
70°-80°	5076.0	17.4
80°-90°	567.3	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°	29100.2	100.0
0°-180°	29100.2	100.0

Coefficient of Utilization



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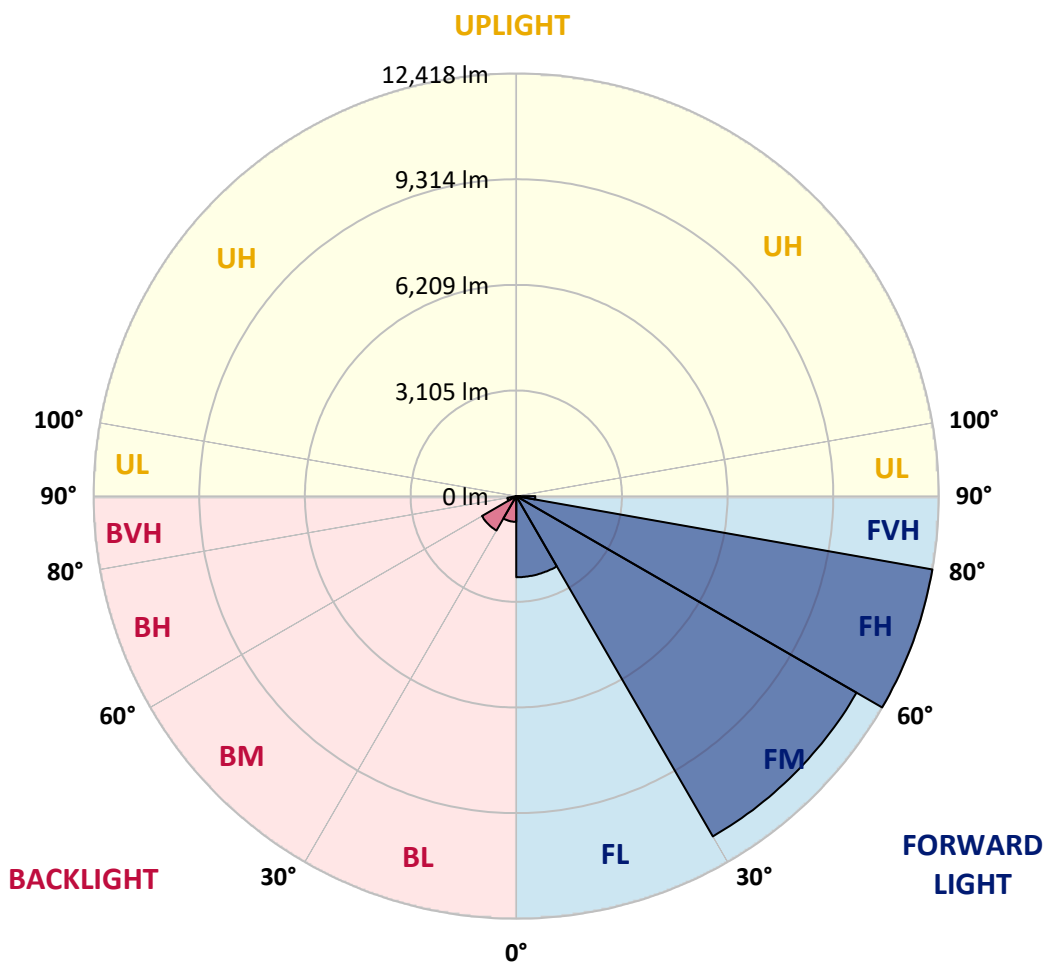
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2382.7	8.2			
FM (30°-60°)	11547.4	39.7			
FH (60°-80°)	12418.3	42.7			G5
FVH (80°-90°)	561.0	1.9			G4/750
BL (0°-30°)	756.4	2.6	B2/1000		
BM (30°-60°)	1164.5	4.0	B2/2500		
BH (60°-80°)	263.7	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	5458.2	5511.7	5458.2	5435.3	5412.4	5416.2	5355.2	5366.6	5294.1	5198.7	5122.3
5°	5630.0	5702.5	5645.3	5618.5	5614.7	5542.2	5511.7	5439.1	5351.4	5202.5	5110.9
7.5°	5614.7	5599.5	5626.2	5603.3	5553.6	5553.6	5519.3	5416.2	5328.5	5160.5	5004.0
10°	5500.2	5546.0	5523.1	5496.4	5507.8	5511.7	5446.8	5374.3	5347.5	5179.6	4923.9
12.5°	5488.8	5412.4	5496.4	5500.2	5450.6	5446.8	5439.1	5420.1	5336.1	5183.4	4942.9
15°	5450.6	5420.1	5504.0	5507.8	5519.3	5507.8	5519.3	5504.0	5420.1	5332.3	5026.9
17.5°	5481.1	5446.8	5565.1	5622.4	5595.6	5649.1	5630.0	5561.3	5488.8	5385.7	5107.1
20°	5488.8	5538.4	5668.2	5691.1	5775.0	5687.2	5683.4	5610.9	5565.1	5454.4	5156.7
22.5°	5630.0	5652.9	5813.2	5862.8	5866.6	5855.2	5759.8	5675.8	5656.7	5519.3	5168.1
25°	5843.7	5923.9	5996.4	6027.0	6038.4	5985.0	5885.7	5778.8	5733.0	5645.3	5286.5
27.5°	6221.6	6172.0	6236.9	6282.7	6152.9	6172.0	6046.0	5954.4	5889.5	5813.2	5423.9
30°	6557.5	6511.7	6515.5	6507.9	6397.2	6294.1	6259.8	6099.5	6019.3	6049.9	5637.6
32.5°	6859.0	6759.8	6843.8	6805.6	6599.5	6569.0	6542.2	6339.9	6355.2	6496.4	5958.2
35°	7137.7	7103.3	7172.0	7103.3	6965.9	6958.3	6931.6	6756.0	6840.0	7042.3	6507.9
37.5°	7393.4	7404.9	7488.8	7454.5	7465.9	7473.6	7458.3	7271.3	7511.7	7966.0	7149.1
40°	7630.1	7614.8	7820.9	7927.8	7950.7	8034.7	8034.7	7988.9	8359.1	8870.6	8038.5
42.5°	7882.0	7920.2	8187.3	8366.7	8584.3	8656.8	8756.1	8779.0	9351.5	9935.5	8946.9
45°	8294.2	8229.3	8569.0	8992.7	9183.6	9439.3	9592.0	9721.8	10412.6	11214.2	9855.3
47.5°	8817.1	8687.4	8985.1	9599.6	10042.4	10252.3	10527.1	10698.9	11374.5	12202.8	10714.2
50°	9397.3	9263.7	9408.8	10256.1	10771.4	11153.1	11504.3	11721.8	12538.7	13309.7	11340.1
52.5°	10053.8	9931.7	9954.6	10939.4	11698.9	11977.6	12439.4	12763.9	13576.9	13977.6	11561.5
55°	10752.3	10721.8	10649.3	11607.3	12511.9	13137.9	13416.5	13805.9	14641.8	14340.2	11802.0
57.5°	11454.6	11359.2	11462.3	12492.8	13817.3	14191.4	14576.9	14809.7	15233.4	14657.1	11710.4
60°	12115.0	12122.6	12267.7	13454.7	14928.1	15458.6	15806.0	15664.7	15840.3	14794.5	11500.4
62.5°	12672.2	12657.0	13023.4	14534.9	16397.6	16756.4	17015.9	16386.1	16122.8	14928.1	11134.0
65°	13172.3	13344.0	13920.4	15821.2	17779.3	18191.5	18035.0	17069.4	16397.6	14534.9	10103.4
67.5°	13550.1	13805.9	14805.9	17031.2	19046.5	19336.6	19119.1	17588.5	16073.1	12992.9	8229.3
70°	13771.5	14031.1	15439.5	18038.9	20058.0	20268.0	19756.5	17187.7	14179.9	9408.8	5133.8
71°	13702.8	14019.6	15561.7	18145.7	20298.5	20455.0	19661.1	16447.2	12752.4	7878.2	3744.4
72.5°	13080.7	13378.4	15054.0	18069.4	20008.4	19913.0	18916.8	14668.5	10038.6	5023.1	1935.2
75°	9611.1	9931.7	12920.3	15630.4	17859.5	17203.0	15309.8	10294.3	5236.8	1538.2	564.9
77.5°	4786.4	4839.9	8019.4	11347.8	13099.7	12447.0	10259.9	5740.7	1958.1	454.2	282.5
80°	2206.2	2221.5	3007.7	5878.1	7920.2	7454.5	5748.3	2832.2	885.5	240.5	221.4
82.5°	1503.9	1526.8	1813.0	2435.2	3439.1	2900.9	2328.3	1813.0	507.7	145.0	217.6
85°	274.8	251.9	1015.3	1290.1	1328.3	900.8	805.4	1568.8	190.8	84.0	190.8
87.5°	0.0	3.8	141.2	526.7	473.3	209.9	274.8	381.7	19.1	26.7	34.4
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°	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1	5065.1
2.5°	5057.4	5015.5	4874.2	4717.7	4576.5	4465.8	4324.6	4259.7	4156.6	4099.4	4095.6
5°	4984.9	4870.4	4626.1	4362.8	4068.9	3824.6	3553.6	3400.9	3225.3	3171.9	3160.4
7.5°	4862.8	4698.7	4339.9	3969.6	3519.2	3087.9	2755.8	2400.9	2183.3	2091.7	2057.3
10°	4786.4	4588.0	4099.4	3545.9	2916.1	2309.2	1843.6	1465.7	1267.2	1171.8	1148.9
12.5°	4786.4	4572.7	3904.7	3141.3	2305.4	1580.2	1141.3	923.7	858.8	835.9	835.9
15°	4775.0	4542.2	3717.7	2725.3	1706.2	1061.1	851.2	805.4	797.7	793.9	790.1
17.5°	4832.2	4488.7	3526.9	2278.7	1206.2	835.9	782.5	774.8	767.2	767.2	759.6
20°	4874.2	4458.2	3297.8	1805.4	900.8	774.8	751.9	740.5	736.7	732.9	740.5
22.5°	4839.9	4412.4	3015.4	1351.2	786.3	736.7	721.4	710.0	702.3	702.3	706.1
25°	4904.8	4370.4	2732.9	1019.1	736.7	702.3	687.0	679.4	675.6	671.8	664.1
27.5°	4992.6	4389.5	2397.0	820.6	694.7	668.0	652.7	645.1	641.2	633.6	641.2
30°	5099.4	4385.7	2026.8	717.6	656.5	629.8	614.5	610.7	603.1	599.3	603.1
32.5°	5282.6	4484.9	1645.1	664.1	614.5	591.6	576.4	572.5	568.7	564.9	561.1
35°	5675.8	4607.0	1286.3	622.2	576.4	549.6	538.2	530.6	526.7	522.9	519.1
37.5°	6160.5	4878.1	981.0	584.0	538.2	511.5	500.0	496.2	480.9	477.1	473.3
40°	6767.4	5168.1	755.8	542.0	503.8	477.1	465.7	454.2	435.1	427.5	419.9
42.5°	7523.2	5450.6	622.2	503.8	465.7	446.6	427.5	408.4	393.1	377.9	370.2
45°	8278.9	5778.8	545.8	469.5	435.1	412.2	397.0	370.2	343.5	320.6	316.8
47.5°	8908.7	5897.2	500.0	431.3	404.6	385.5	362.6	328.3	290.1	267.2	263.4
50°	9378.2	5828.5	454.2	393.1	370.2	351.2	320.6	278.6	240.5	217.6	209.9
52.5°	9469.8	5526.9	412.2	362.6	335.9	313.0	278.6	232.8	190.8	167.9	164.1
55°	9404.9	5026.9	377.9	335.9	305.4	271.0	232.8	187.0	148.9	126.0	122.1
57.5°	9271.4	4435.3	339.7	301.5	267.2	232.8	190.8	152.7	110.7	87.8	87.8
60°	8817.1	3629.9	301.5	263.4	229.0	198.5	156.5	110.7	76.3	57.3	53.4
62.5°	8183.5	2790.2	263.4	225.2	198.5	164.1	122.1	80.2	45.8	30.5	30.5
65°	7027.0	1954.3	221.4	187.0	164.1	133.6	91.6	49.6	26.7	11.5	11.5
67.5°	5339.9	1210.0	183.2	156.5	141.2	106.9	64.9	30.5	11.5	3.8	0.0
70°	3065.0	629.8	145.0	126.0	110.7	80.2	45.8	15.3	7.6	0.0	0.0
71°	2141.3	465.7	129.8	110.7	99.2	72.5	38.2	11.5	3.8	0.0	0.0
72.5°	1072.6	309.2	110.7	91.6	80.2	57.3	30.5	11.5	3.8	0.0	0.0
75°	381.7	198.5	76.3	61.1	57.3	42.0	19.1	7.6	3.8	0.0	0.0
77.5°	263.4	160.3	53.4	38.2	38.2	26.7	11.5	3.8	3.8	0.0	0.0
80°	240.5	87.8	34.4	22.9	19.1	15.3	7.6	3.8	0.0	0.0	0.0
82.5°	240.5	64.9	19.1	15.3	11.5	7.6	3.8	0.0	0.0	0.0	0.0
85°	167.9	34.4	11.5	11.5	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	26.7	11.5	7.6	3.8	3.8	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)