

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: P483259

Luminaire Tested: **IFLD-L-SA8D-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483259
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

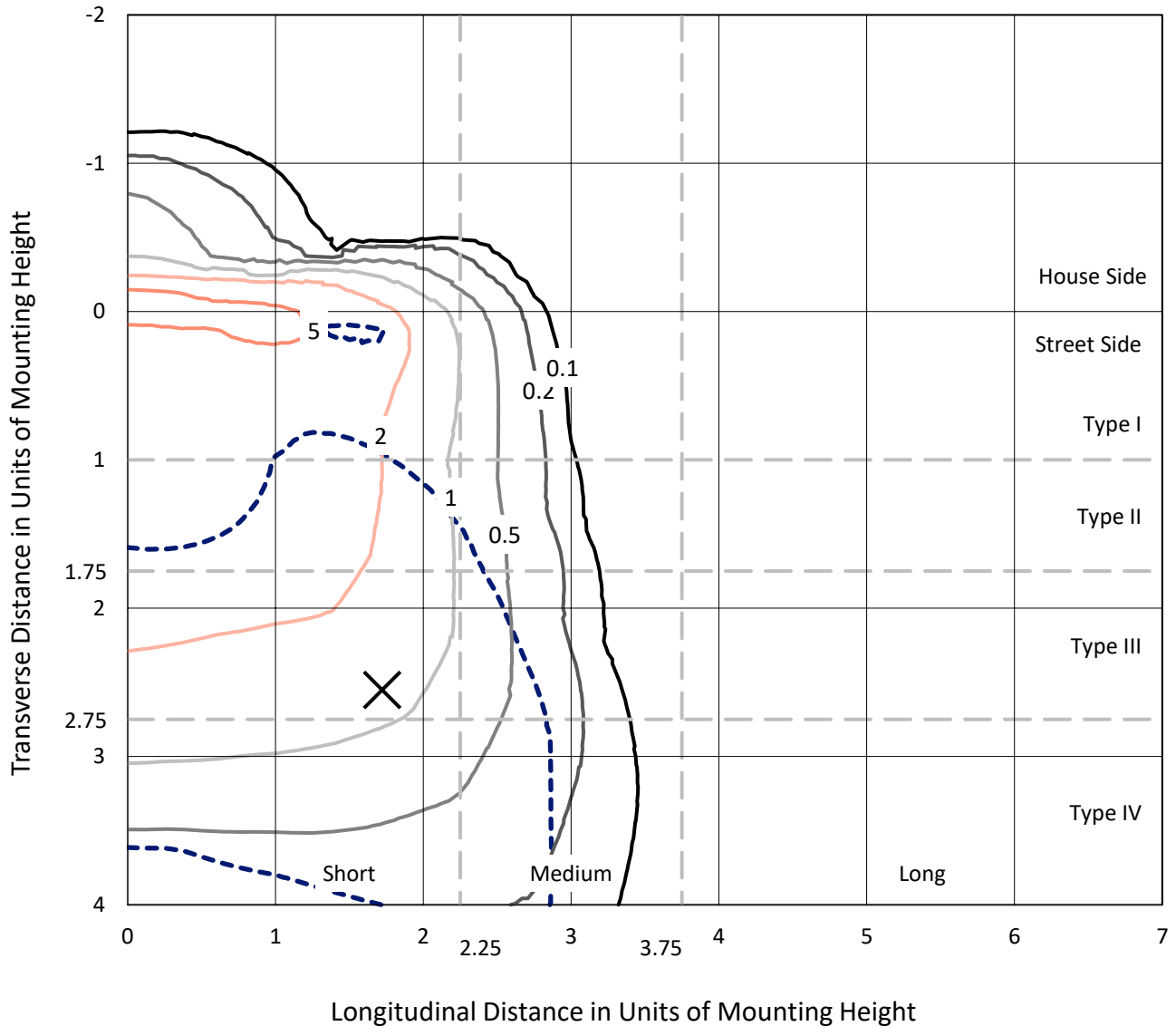
Lumens per Lamp: N/A
Luminaire Lumens: 40310.4 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

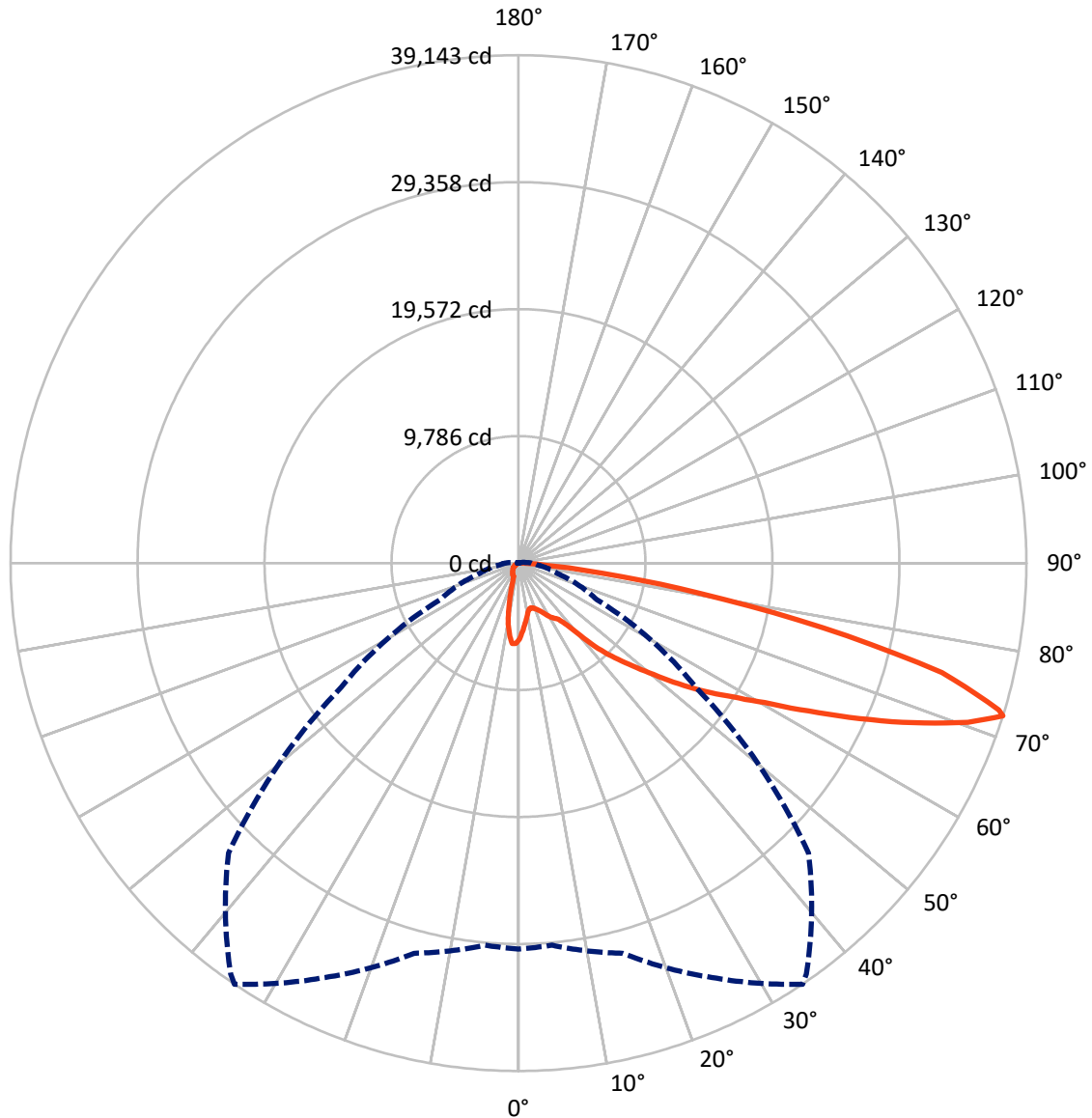
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4126.8	0.0	4126.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	36183.6	0.0	36183.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	40310.4	0.0	40310.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.9	1.3
10°-20°	1159.0	2.9
20°-30°	1749.4	4.3
30°-40°	2839.0	7.0
40°-50°	5338.6	13.2
50°-60°	8728.8	21.7
60°-70°	11603.7	28.8
70°-80°	7770.9	19.3
80°-90°	609.0	1.5
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°	40310.4	100.0
0°-180°	40310.4	100.0



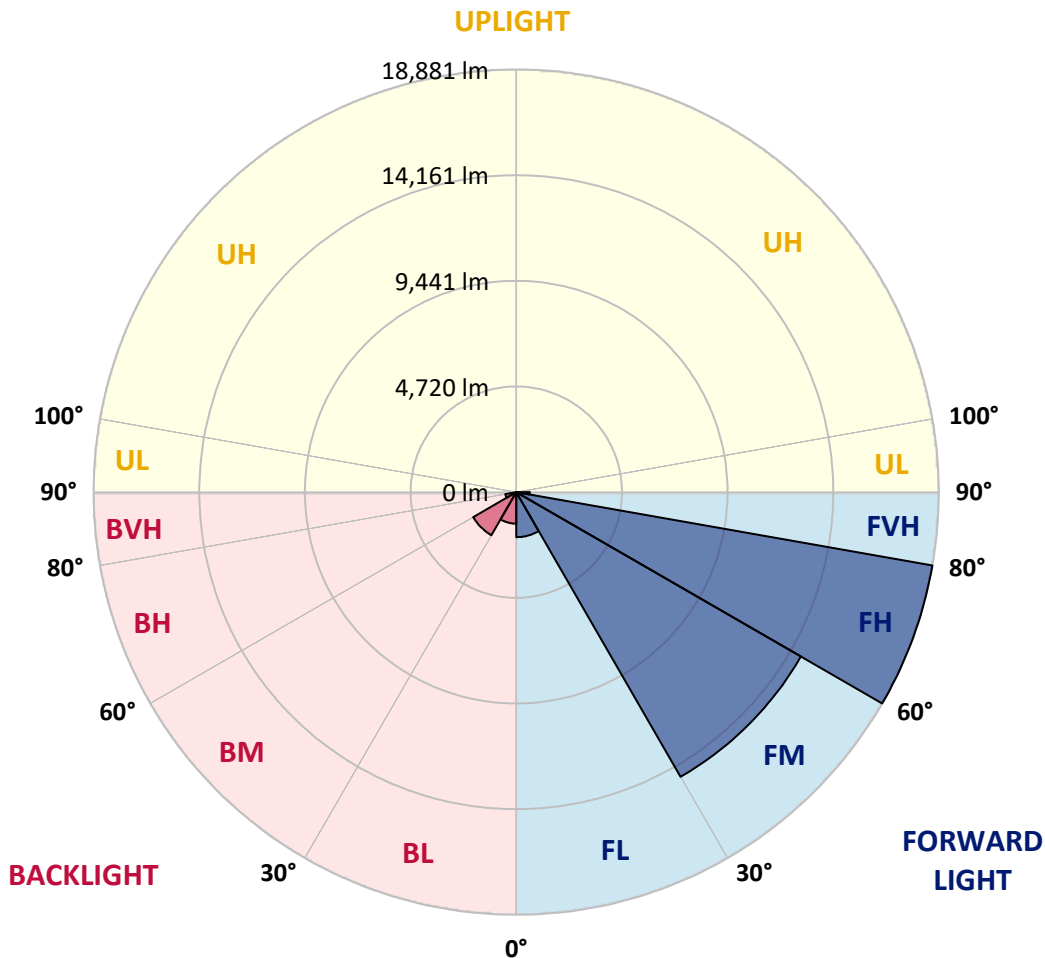
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.4	5.0			
FM (30°-60°)	14685.0	36.4			
FH (60°-80°)	18881.1	46.8			G5
FVH (80°-90°)	605.1	1.5			G4/750
BL (0°-30°)	1408.1	3.5	B3/2500		
BM (30°-60°)	2221.4	5.5	B2/2500		
BH (60°-80°)	493.5	1.2	B1/500		G1/500
BVH (80°-90°)	3.9	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°	34°	35°	45°	55°	65°	75°	85°
0°	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4
2.5°	5215.6	5204.0	5238.9	5297.2	5355.5	5332.2	5442.9	5559.5	5641.0	5751.8	5885.8
5°	4557.1	4586.3	4621.2	4737.8	4813.5	4831.0	5035.0	5186.5	5437.1	5693.5	5932.4
7.5°	3956.9	3991.9	4061.8	4190.0	4347.3	4388.1	4592.1	4895.1	5221.5	5559.5	5949.9
10°	3519.8	3554.8	3630.5	3712.1	3921.9	3921.9	4201.6	4621.2	5046.6	5442.9	5955.7
12.5°	3426.6	3444.1	3438.2	3502.3	3636.4	3665.5	3939.4	4399.8	4895.1	5402.1	6049.0
15°	3537.3	3549.0	3490.7	3455.7	3572.3	3601.4	3857.8	4265.7	4796.0	5425.4	6200.5
17.5°	3758.7	3718.0	3601.4	3549.0	3648.0	3665.5	3904.4	4259.9	4784.4	5489.5	6375.3
20°	3887.0	3933.6	3729.6	3630.5	3770.4	3793.7	4050.1	4353.2	4842.7	5600.2	6620.1
22.5°	4114.2	4137.5	3863.6	3799.5	3933.6	3933.6	4225.0	4539.6	4982.5	5780.9	6911.4
25°	4434.7	4405.6	4085.1	4021.0	4149.2	4201.6	4493.0	4836.8	5198.1	5949.9	7179.5
27.5°	4685.3	4702.8	4440.6	4271.6	4487.2	4522.2	4836.8	5157.4	5361.3	6089.8	7505.8
30°	5058.3	5023.3	4743.6	4551.3	4819.4	4825.2	5128.2	5460.4	5676.0	6340.3	7995.4
32.5°	5501.2	5431.2	5110.7	4836.8	5052.5	5104.9	5413.8	5897.4	6165.5	6812.4	8752.9
35°	6439.4	6270.4	5745.9	5320.5	5338.0	5361.3	5839.2	6532.6	6841.5	7412.6	9766.9
37.5°	7808.9	7738.9	7144.5	6334.5	6025.7	5955.7	6491.9	7371.8	7756.4	8205.1	11083.9
40°	9166.7	9067.6	8514.0	7902.1	7342.7	7202.8	7470.9	8484.9	8834.5	9306.5	12435.9
42.5°	10676.0	10501.2	9848.5	9353.2	9003.5	8852.0	8747.1	9883.5	10279.7	10600.3	13758.8
45°	12202.8	11917.3	10973.2	10594.4	10407.9	10326.4	10314.7	11643.4	11882.3	11946.4	15227.3
47.5°	13543.2	13234.3	12377.6	11952.2	11812.4	11789.1	12441.8	13671.4	13484.9	13315.9	16864.8
50°	14574.6	14376.5	13758.8	13607.3	13502.4	13461.6	14988.4	15757.6	14895.1	14597.9	18304.2
52.5°	16171.4	15728.5	15029.2	15081.6	15448.8	15454.6	17570.0	17739.0	16066.5	15477.9	19662.0
55°	17447.6	17156.2	16585.1	16509.4	17476.7	17581.6	19883.5	19242.5	16719.1	16317.1	20163.2
57.5°	18951.1	18817.1	18403.3	18415.0	19428.9	19650.4	21940.6	20512.9	17261.1	16859.0	20239.0
60°	21124.8	20740.1	20524.5	20623.6	21818.2	22033.8	23933.6	21427.8	17523.3	17214.5	20052.5
62.5°	23525.7	23077.0	22843.9	23350.9	25093.3	25128.3	25448.8	22237.8	17360.2	17307.7	18852.0
65°	26416.1	25973.2	25786.8	26806.6	28875.4	28747.1	27575.8	22581.6	16841.5	16369.5	15699.3
67.5°	29294.9	29026.9	28642.3	30268.1	32843.9	32843.9	29784.4	22453.4	15483.7	13141.1	10268.1
70°	30658.6	30845.1	31456.9	34009.4	36742.5	36462.8	31963.9	20979.1	11526.8	7057.1	4038.5
72°	29749.5	29557.2	31136.4	35233.2	39143.4	38683.1	31596.8	16678.4	6660.9	3094.4	1404.4
72.5°	28187.7	28368.4	30542.0	35064.2	38694.7	39073.5	30699.4	15384.6	5477.9	2465.0	1060.6
75°	17284.4	17593.3	22797.3	29772.8	33718.0	33292.6	23747.1	7331.0	2103.7	1049.0	378.8
77.5°	6311.2	6567.6	11060.6	18735.5	23980.2	23712.2	13741.3	2604.9	1142.2	780.9	192.3
80°	1643.4	1777.4	3758.7	8642.2	14102.6	14120.1	5751.8	1043.1	775.1	641.0	116.6
82.5°	326.3	361.3	1153.8	3362.5	6590.9	6503.5	1818.2	559.4	582.8	524.5	81.6
85°	40.8	52.4	244.8	1142.2	2132.9	1911.4	448.7	279.7	431.2	407.9	52.4
87.5°	5.8	5.8	58.3	262.2	448.7	437.1	93.2	87.4	192.3	250.6	29.1
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°	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4	5897.4
2.5°	5961.6	5984.9	6066.4	6136.4	6218.0	6241.3	6206.3	6264.6	6183.0	6229.6	6241.3
5°	5973.2	6107.2	6258.8	6357.8	6334.5	6276.2	6229.6	6072.3	5961.6	5920.8	6008.2
7.5°	6054.8	6206.3	6369.5	6369.5	6241.3	5938.2	5646.9	5367.1	5134.0	5017.5	5116.6
10°	6159.7	6317.0	6486.0	6264.6	5786.7	5233.1	4819.4	4294.9	3939.4	3752.9	3770.4
12.5°	6299.5	6521.0	6579.3	6066.4	5273.9	4452.2	3700.5	2972.0	2634.0	2366.0	2371.8
15°	6480.2	6695.8	6521.0	5635.2	4621.2	3409.1	2505.8	1812.4	1544.3	1404.4	1404.4
17.5°	6719.1	6882.3	6503.5	5238.9	3741.3	2331.0	1538.5	1223.8	1165.5	1142.2	1142.2
20°	6998.8	7121.2	6334.5	4621.2	2779.7	1497.7	1130.5	1095.6	1101.4	1089.7	1089.7
22.5°	7313.5	7354.3	6142.2	3904.4	1882.3	1107.2	1054.8	1060.6	1066.4	1054.8	1060.6
25°	7645.7	7535.0	5862.5	3065.3	1252.9	1008.2	1019.8	1031.5	1037.3	1043.1	1043.1
27.5°	8018.7	7797.2	5472.0	2243.6	979.0	949.9	984.9	1019.8	1025.6	1025.6	1019.8
30°	8566.5	8199.3	5093.3	1521.0	862.5	885.8	944.1	984.9	1014.0	1014.0	1008.2
32.5°	9259.9	8618.9	4562.9	1037.3	798.4	810.0	856.6	938.2	1002.3	1008.2	990.7
35°	10221.5	9125.9	4009.3	827.5	751.7	757.6	786.7	850.8	961.5	996.5	990.7
37.5°	11235.5	9702.8	3321.7	745.9	716.8	711.0	728.4	780.9	880.0	967.4	973.2
40°	12313.5	10308.9	2599.1	705.1	687.6	676.0	681.8	705.1	780.9	891.6	914.9
42.5°	13327.5	10856.7	1952.2	664.3	658.5	646.9	646.9	652.7	693.5	769.2	780.9
45°	14423.1	11305.4	1486.0	635.2	617.7	623.5	600.2	588.6	617.7	623.5	617.7
47.5°	15448.8	11754.1	1188.8	600.2	582.8	582.8	553.6	530.3	530.3	477.9	472.0
50°	16410.3	11998.9	949.9	553.6	547.8	542.0	501.2	460.4	425.4	361.3	349.7
52.5°	17208.7	11987.2	734.3	495.3	512.8	495.3	431.2	373.0	320.5	262.2	250.6
55°	17447.6	11427.8	553.6	407.9	437.1	413.8	343.8	291.4	233.1	186.5	180.7
57.5°	17243.6	10576.9	419.6	314.7	338.0	314.7	262.2	215.6	163.2	128.2	116.6
60°	16561.8	9580.4	326.3	244.8	256.4	238.9	198.1	163.2	116.6	81.6	69.9
62.5°	15268.1	8333.4	250.6	192.3	186.5	186.5	151.5	122.4	81.6	46.6	40.8
65°	12529.2	6497.7	192.3	134.0	134.0	134.0	116.6	87.4	52.4	23.3	11.7
67.5°	7867.1	3782.1	157.3	104.9	99.1	99.1	81.6	58.3	29.1	5.8	0.0
70°	2960.4	1386.9	122.4	81.6	75.8	75.8	58.3	35.0	17.5	0.0	0.0
72°	1019.8	530.3	99.1	58.3	58.3	52.4	40.8	29.1	11.7	0.0	0.0
72.5°	839.2	425.4	93.2	58.3	52.4	52.4	40.8	29.1	11.7	0.0	0.0
75°	303.0	174.8	64.1	40.8	35.0	35.0	29.1	17.5	5.8	0.0	0.0
77.5°	151.5	110.7	52.4	35.0	29.1	17.5	17.5	11.7	5.8	0.0	0.0
80°	93.2	69.9	29.1	23.3	17.5	11.7	5.8	5.8	0.0	0.0	0.0
82.5°	64.1	40.8	17.5	17.5	11.7	5.8	0.0	0.0	0.0	0.0	0.0
85°	40.8	17.5	11.7	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	11.7	5.8	0.0	0.0	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)