

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: P484926

Luminaire Tested: **IFLD-M-SA4D-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484926
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

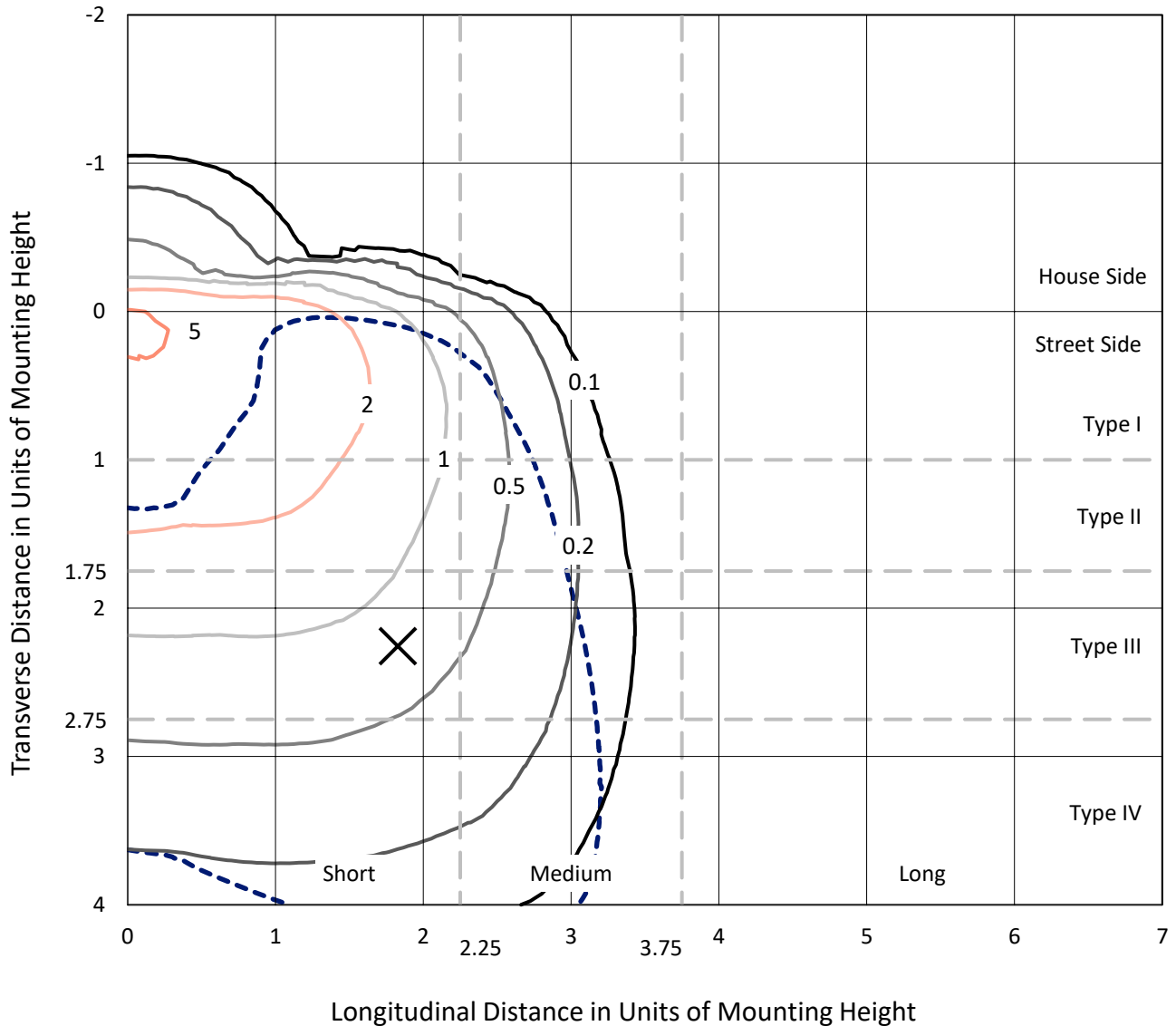
Lumens per Lamp: N/A
Luminaire Lumens: 18998.1 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 249.7
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

REPORT NUMBER: P484926
 CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

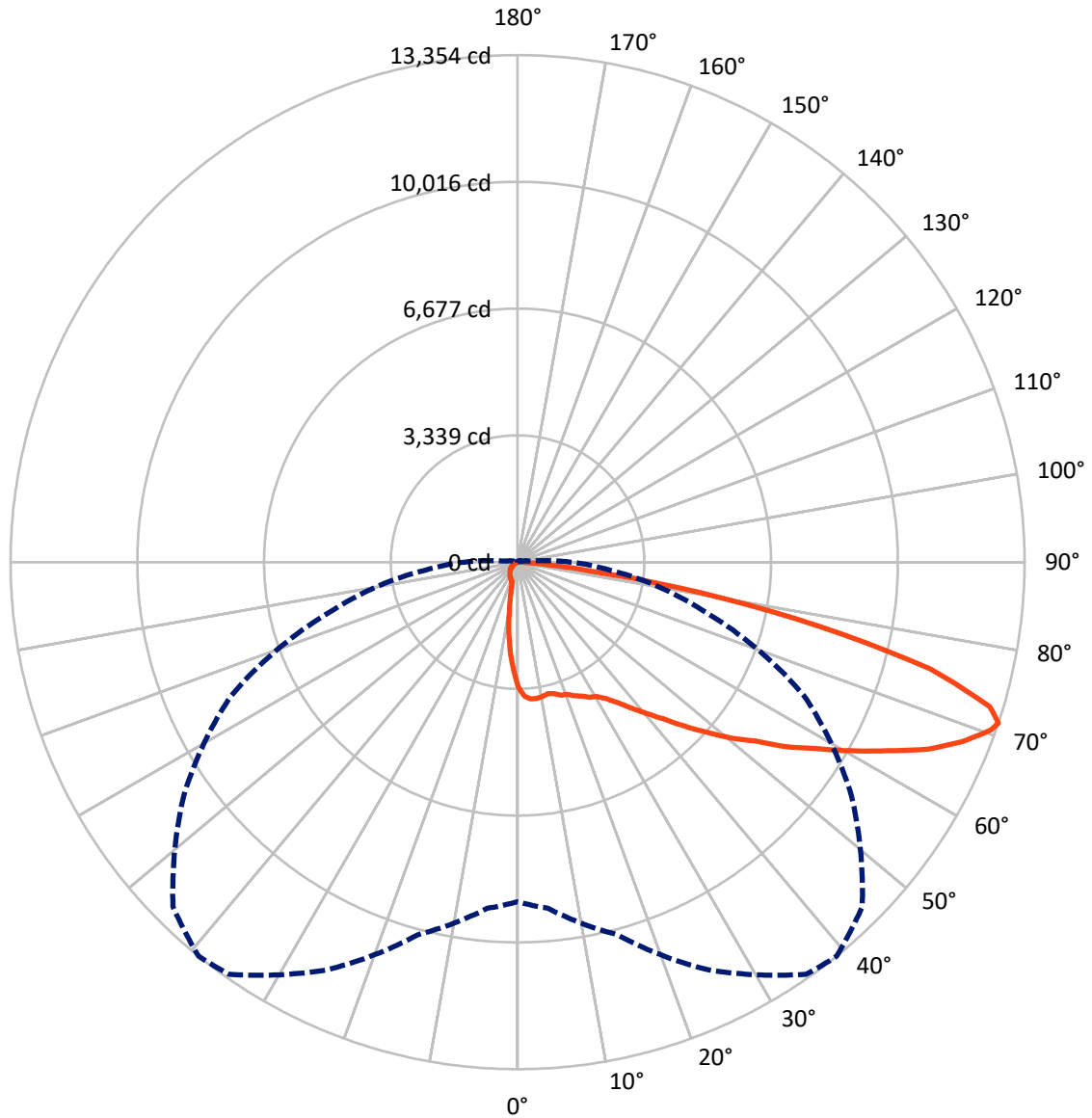
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P484926
CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484926
 CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4-HSS

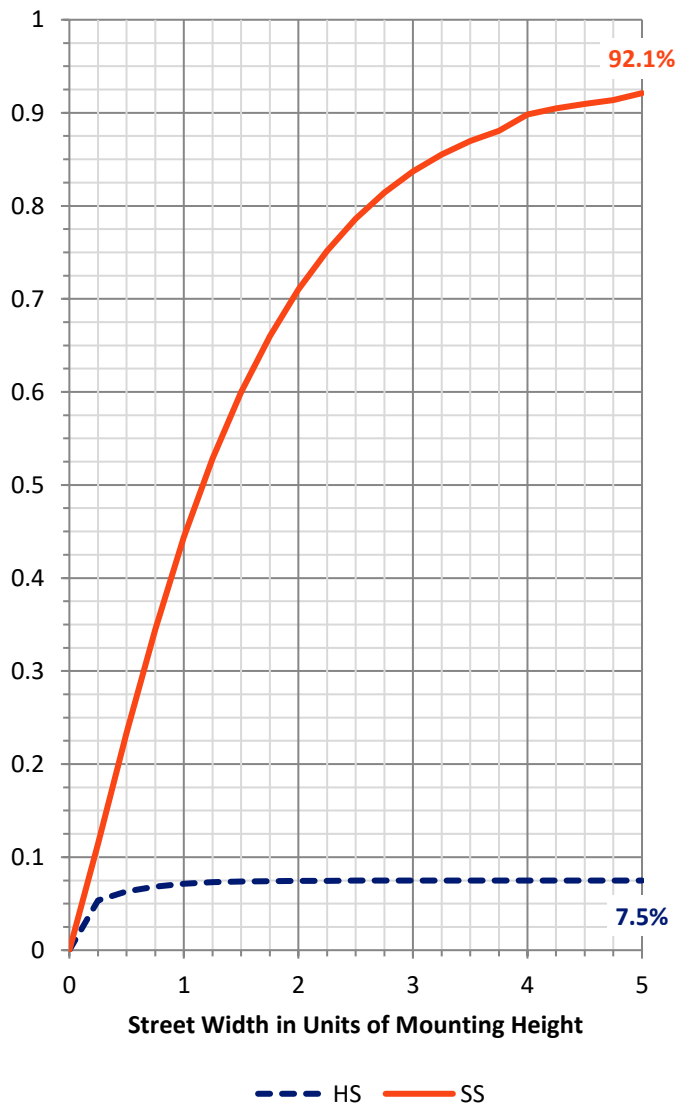
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.3	0.0	1430.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17567.8	0.0	17567.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	18998.1	0.0	18998.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.5
10°-20°	680.5	3.6
20°-30°	1092.4	5.8
30°-40°	1672.2	8.8
40°-50°	2684.2	14.1
50°-60°	3942.6	20.8
60°-70°	4965.6	26.1
70°-80°	3313.9	17.4
80°-90°	370.3	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°	18998.1	100.0
0°-180°	18998.1	100.0

Coefficient of Utilization



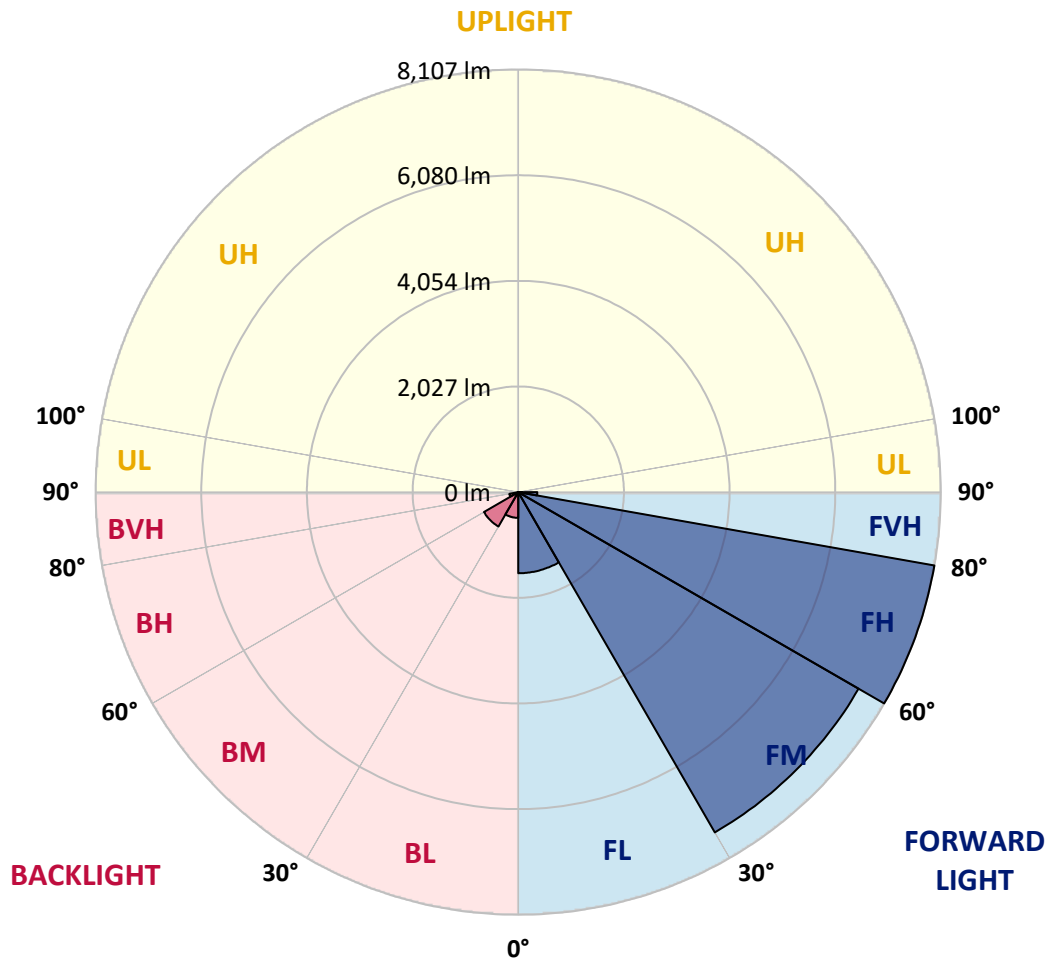
REPORT NUMBER: P484926
 CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.5	8.2			
FM (30°-60°)	7538.7	39.7			
FH (60°-80°)	8107.3	42.7			G4/12000
FVH (80°-90°)	366.3	1.9			G3/500
BL (0°-30°)	493.8	2.6	B1/500		
BM (30°-60°)	760.2	4.0	B1/1000		
BH (60°-80°)	172.1	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P484926

CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7
2.5°	3563.4	3598.3	3563.4	3548.4	3533.5	3536.0	3496.1	3503.6	3456.2	3394.0	3344.1
5°	3675.5	3722.9	3685.5	3668.1	3665.6	3618.2	3598.3	3550.9	3493.6	3396.4	3336.6
7.5°	3665.6	3655.6	3673.0	3658.1	3625.7	3625.7	3603.3	3536.0	3478.7	3369.0	3266.9
10°	3590.8	3620.7	3605.8	3588.3	3595.8	3598.3	3555.9	3508.6	3491.1	3381.5	3214.5
12.5°	3583.3	3533.5	3588.3	3590.8	3558.4	3555.9	3550.9	3538.5	3483.7	3384.0	3227.0
15°	3558.4	3538.5	3593.3	3595.8	3603.3	3595.8	3603.3	3593.3	3538.5	3481.2	3281.8
17.5°	3578.4	3555.9	3633.2	3670.6	3653.1	3688.0	3675.5	3630.7	3583.3	3516.1	3334.1
20°	3583.3	3615.7	3700.5	3715.4	3770.2	3712.9	3710.4	3663.1	3633.2	3560.9	3366.5
22.5°	3675.5	3690.5	3795.1	3827.5	3830.0	3822.6	3760.3	3705.4	3693.0	3603.3	3374.0
25°	3815.1	3867.4	3914.8	3934.7	3942.2	3907.3	3842.5	3772.7	3742.8	3685.5	3451.3
27.5°	4061.8	4029.4	4071.7	4101.6	4016.9	4029.4	3947.2	3887.3	3845.0	3795.1	3541.0
30°	4281.1	4251.2	4253.7	4248.7	4176.4	4109.1	4086.7	3982.0	3929.7	3949.6	3680.5
32.5°	4477.9	4413.1	4468.0	4443.0	4308.5	4288.5	4271.1	4139.0	4149.0	4241.2	3889.8
35°	4659.8	4637.4	4682.3	4637.4	4547.7	4542.7	4525.3	4410.6	4465.5	4597.5	4248.7
37.5°	4826.8	4834.3	4889.1	4866.7	4874.1	4879.1	4869.1	4747.0	4904.0	5200.6	4667.3
40°	4981.3	4971.3	5105.9	5175.7	5190.6	5245.4	5245.4	5215.5	5457.2	5791.1	5247.9
42.5°	5145.7	5170.7	5345.1	5462.2	5604.3	5651.6	5716.4	5731.3	6105.1	6486.4	5841.0
45°	5414.9	5372.5	5594.3	5870.9	5995.5	6162.4	6262.1	6346.8	6797.9	7321.2	6434.1
47.5°	5756.3	5671.5	5865.9	6267.1	6556.2	6693.2	6872.6	6984.8	7425.8	7966.6	6994.7
50°	6135.0	6047.8	6142.5	6695.7	7032.1	7281.3	7510.6	7652.6	8185.9	8689.2	7403.4
52.5°	6563.6	6483.9	6498.8	7141.8	7637.6	7819.5	8121.1	8332.9	8863.6	9125.3	7547.9
55°	7019.6	6999.7	6952.4	7577.8	8168.4	8577.1	8759.0	9013.2	9558.9	9362.0	7704.9
57.5°	7478.2	7415.9	7483.1	8155.9	9020.6	9264.8	9516.5	9668.5	9945.1	9568.9	7645.1
60°	7909.3	7914.2	8008.9	8783.9	9745.8	10092.1	10318.9	10226.7	10341.3	9658.6	7508.1
62.5°	8273.1	8263.1	8502.3	9489.1	10705.2	10939.4	11108.8	10697.7	10525.7	9745.8	7268.8
65°	8599.5	8711.6	9087.9	10328.9	11607.2	11876.3	11774.2	11143.7	10705.2	9489.1	6596.0
67.5°	8846.2	9013.2	9666.0	11118.8	12434.5	12623.9	12481.9	11482.6	10493.3	8482.4	5372.5
70°	8990.7	9160.2	10079.7	11776.7	13094.9	13231.9	12898.0	11221.0	9257.4	6142.5	3351.6
71°	8945.9	9152.7	10159.4	11846.4	13251.9	13354.0	12835.7	10737.5	8325.4	5143.3	2444.5
72.5°	8539.7	8734.1	9828.0	11796.6	13062.5	13000.2	12349.8	9576.3	6553.7	3279.3	1263.4
75°	6274.6	6483.9	8435.0	10204.3	11659.5	11230.9	9995.0	6720.6	3418.9	1004.2	368.8
77.5°	3124.8	3159.7	5235.5	7408.4	8552.2	8126.0	6698.2	3747.8	1278.3	296.5	184.4
80°	1440.3	1450.3	1963.6	3837.5	5170.7	4866.7	3752.8	1849.0	578.1	157.0	144.5
82.5°	981.8	996.8	1183.6	1589.8	2245.2	1893.8	1520.1	1183.6	331.4	94.7	142.0
85°	179.4	164.5	662.8	842.3	867.2	588.1	525.8	1024.2	124.6	54.8	124.6
87.5°	0.0	2.5	92.2	343.9	309.0	137.1	179.4	249.2	12.5	17.4	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484926

CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7
2.5°	3301.8	3274.3	3182.1	3080.0	2987.8	2915.5	2823.3	2780.9	2713.7	2676.3	2673.8
5°	3254.4	3179.6	3020.2	2848.2	2656.4	2496.9	2319.9	2220.3	2105.6	2070.8	2063.3
7.5°	3174.7	3067.5	2833.3	2591.6	2297.5	2015.9	1799.1	1567.4	1425.4	1365.6	1343.1
10°	3124.8	2995.2	2676.3	2315.0	1903.8	1507.6	1203.6	956.9	827.3	765.0	750.1
12.5°	3124.8	2985.3	2549.2	2050.8	1505.1	1031.6	745.1	603.0	560.7	545.7	545.7
15°	3117.4	2965.3	2427.1	1779.2	1113.9	692.7	555.7	525.8	520.8	518.3	515.8
17.5°	3154.7	2930.5	2302.5	1487.7	787.4	545.7	510.8	505.9	500.9	500.9	495.9
20°	3182.1	2910.5	2153.0	1178.7	588.1	505.9	490.9	483.4	480.9	478.4	483.4
22.5°	3159.7	2880.6	1968.6	882.1	513.3	480.9	471.0	463.5	458.5	458.5	461.0
25°	3202.1	2853.2	1784.2	665.3	480.9	458.5	448.5	443.6	441.1	438.6	433.6
27.5°	3259.4	2865.7	1564.9	535.8	453.5	436.1	426.1	421.1	418.6	413.7	418.6
30°	3329.2	2863.2	1323.2	468.5	428.6	411.2	401.2	398.7	393.7	391.2	393.7
32.5°	3448.8	2928.0	1074.0	433.6	401.2	386.2	376.3	373.8	371.3	368.8	366.3
35°	3705.4	3007.7	839.8	406.2	376.3	358.8	351.4	346.4	343.9	341.4	338.9
37.5°	4021.9	3184.6	640.4	381.3	351.4	333.9	326.4	323.9	314.0	311.5	309.0
40°	4418.1	3374.0	493.4	353.8	328.9	311.5	304.0	296.5	284.1	279.1	274.1
42.5°	4911.5	3558.4	406.2	328.9	304.0	291.6	279.1	266.6	256.7	246.7	241.7
45°	5404.9	3772.7	356.3	306.5	284.1	269.1	259.2	241.7	224.3	209.3	206.8
47.5°	5816.1	3850.0	326.4	281.6	264.1	251.7	236.7	214.3	189.4	174.4	171.9
50°	6122.6	3805.1	296.5	256.7	241.7	229.3	209.3	181.9	157.0	142.0	137.1
52.5°	6182.4	3608.3	269.1	236.7	219.3	204.3	181.9	152.0	124.6	109.6	107.2
55°	6140.0	3281.8	246.7	219.3	199.4	176.9	152.0	122.1	97.2	82.2	79.7
57.5°	6052.8	2895.6	221.8	196.9	174.4	152.0	124.6	99.7	72.3	57.3	57.3
60°	5756.3	2369.8	196.9	171.9	149.5	129.6	102.2	72.3	49.8	37.4	34.9
62.5°	5342.6	1821.6	171.9	147.0	129.6	107.2	79.7	52.3	29.9	19.9	19.9
65°	4587.6	1275.8	144.5	122.1	107.2	87.2	59.8	32.4	17.4	7.5	7.5
67.5°	3486.2	789.9	119.6	102.2	92.2	69.8	42.4	19.9	7.5	2.5	0.0
70°	2001.0	411.2	94.7	82.2	72.3	52.3	29.9	10.0	5.0	0.0	0.0
71°	1397.9	304.0	84.7	72.3	64.8	47.3	24.9	7.5	2.5	0.0	0.0
72.5°	700.2	201.8	72.3	59.8	52.3	37.4	19.9	7.5	2.5	0.0	0.0
75°	249.2	129.6	49.8	39.9	37.4	27.4	12.5	5.0	2.5	0.0	0.0
77.5°	171.9	104.7	34.9	24.9	24.9	17.4	7.5	2.5	2.5	0.0	0.0
80°	157.0	57.3	22.4	15.0	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	157.0	42.4	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	109.6	22.4	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	7.5	5.0	2.5	2.5	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)