

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: P478302

Luminaire Tested: **IFLD-L-SA7E-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478302
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

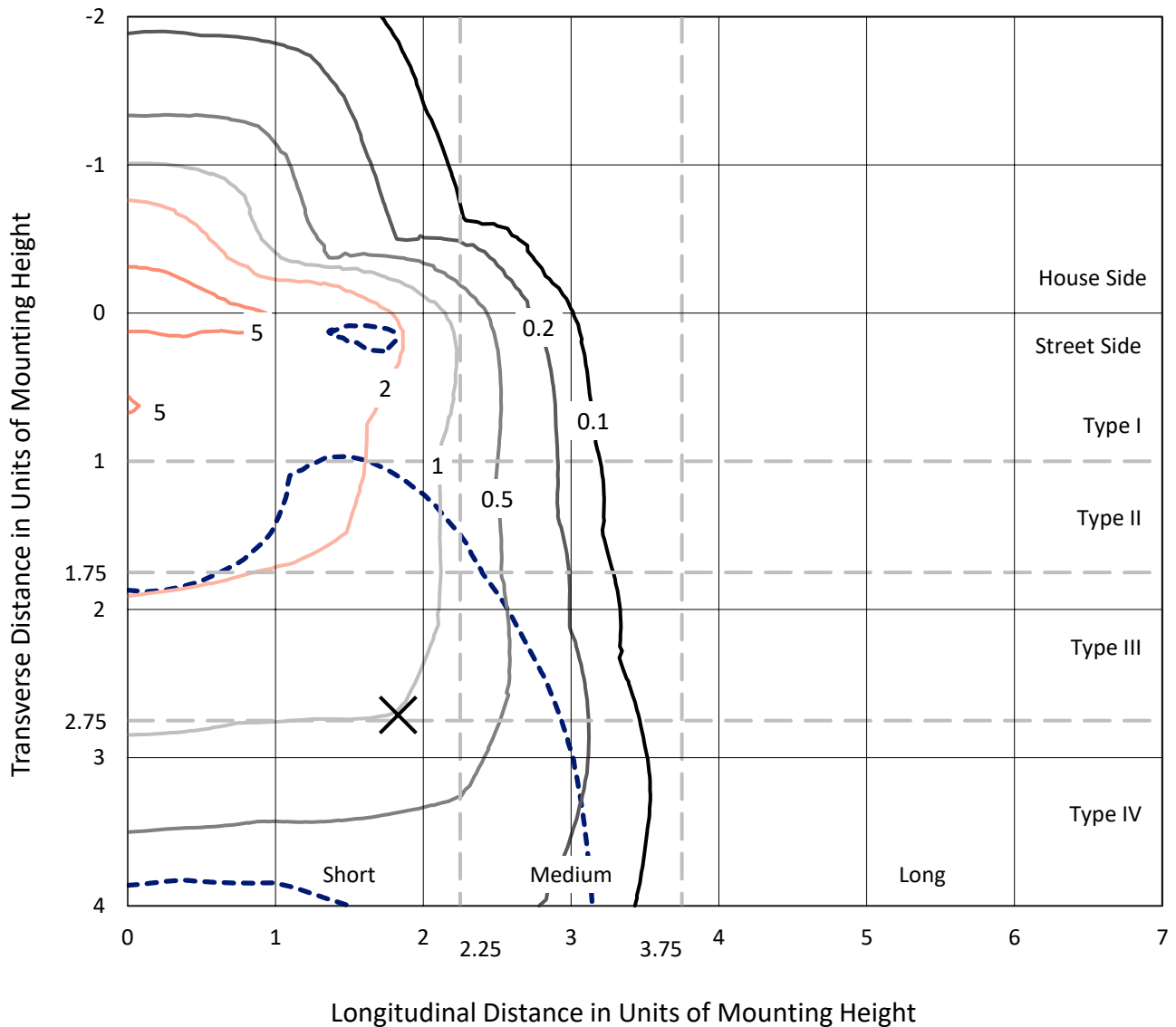
Lumens per Lamp: N/A
Luminaire Lumens: 42513.8 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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: P478302
 CATALOG NUMBER: IFLD-L-SA7E-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

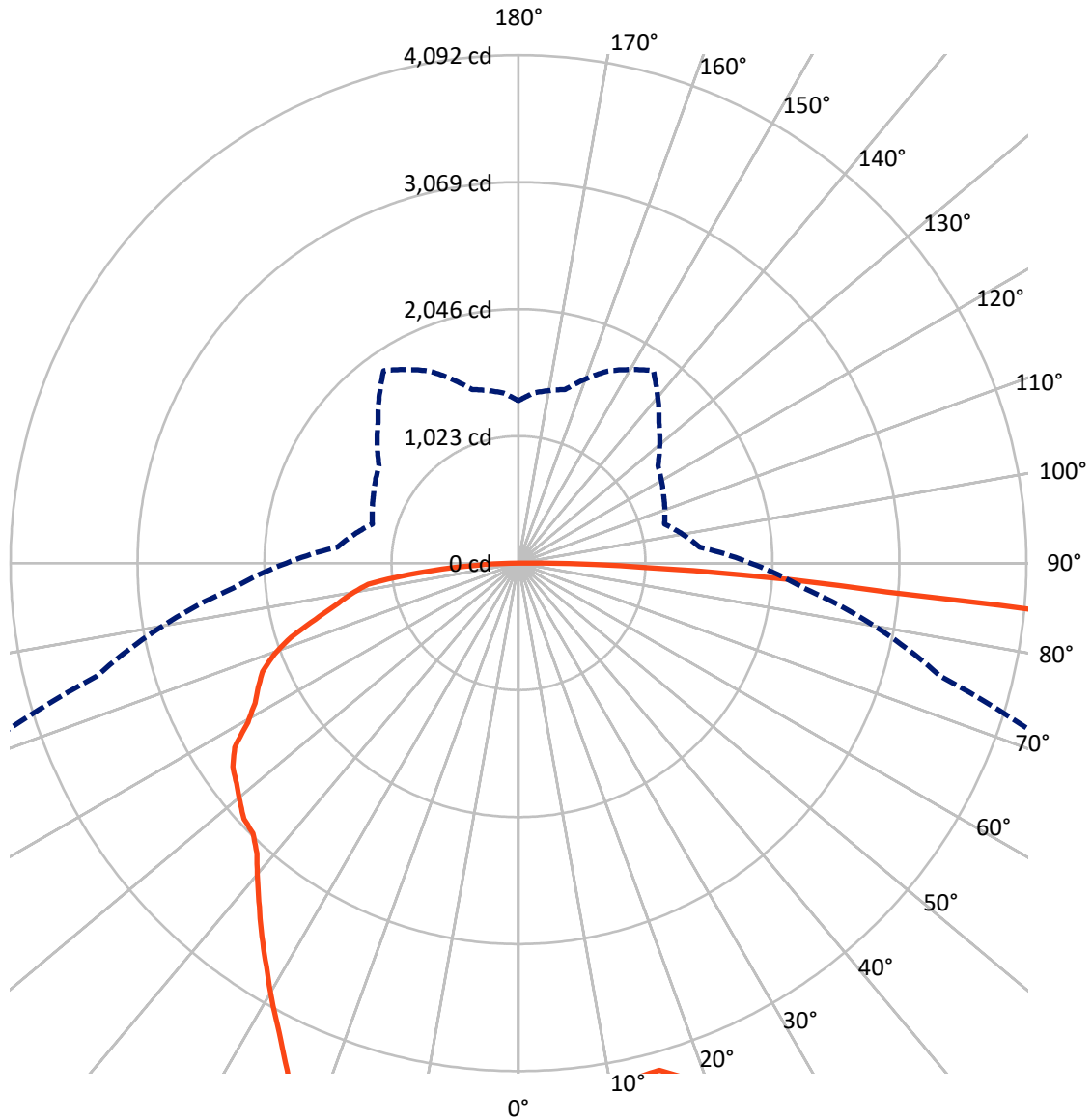
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P478302
CATALOG NUMBER: IFLD-L-SA7E-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478302

CATALOG NUMBER: IFLD-L-SA7E-827-U-T4FT

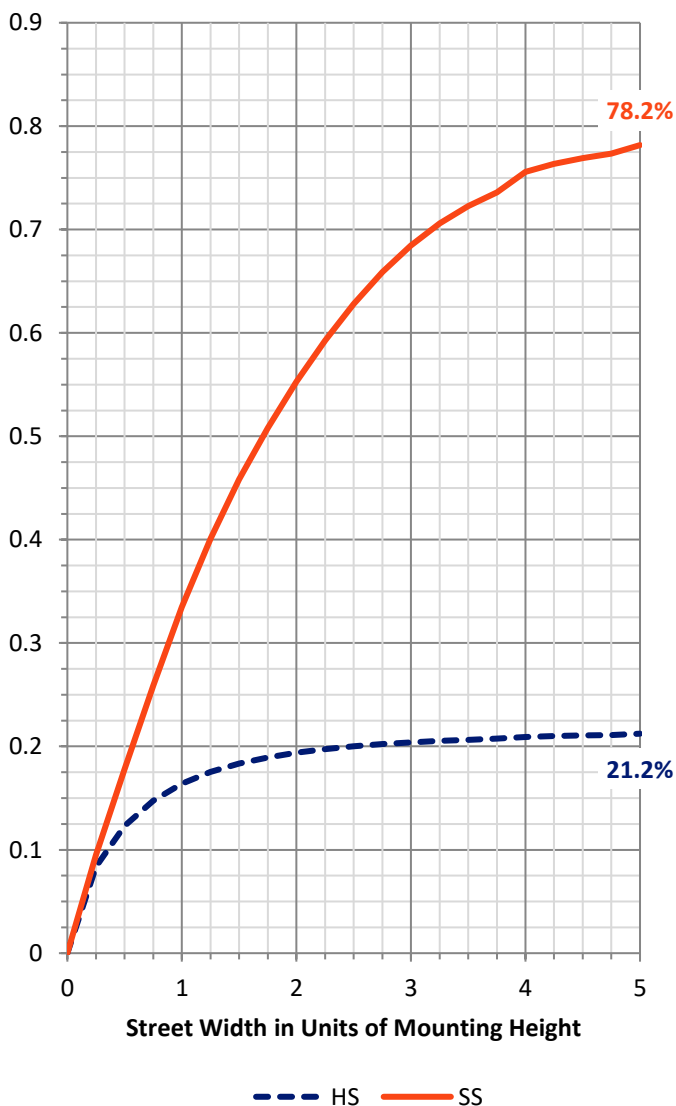
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9183.5	0.0	9183.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33330.3	0.0	33330.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	42513.8	0.0	42513.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.5	1.3
10°-20°	1574.3	3.7
20°-30°	2591.1	6.1
30°-40°	3875.0	9.1
40°-50°	5744.5	13.5
50°-60°	8278.4	19.5
60°-70°	10564.3	24.8
70°-80°	8220.8	19.3
80°-90°	1102.9	2.6
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°	42513.8	100.0
0°-180°	42513.8	100.0

Coefficient of Utilization



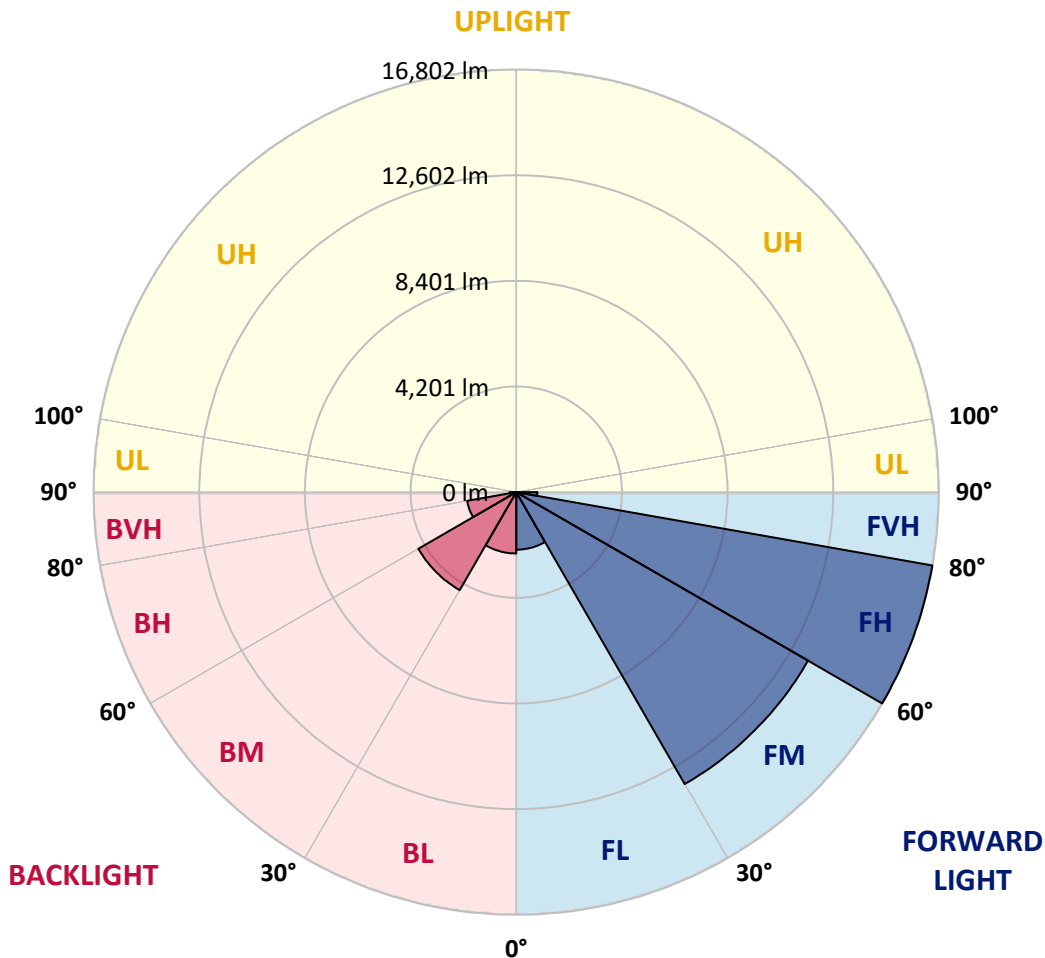
REPORT NUMBER: P478302
 CATALOG NUMBER: IFLD-L-SA7E-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2288.0	5.4			
FM (30°-60°)	13400.6	31.5			
FH (60°-80°)	16802.2	39.5			G5
FVH (80°-90°)	839.5	2.0			G5
BL (0°-30°)	2440.0	5.7	B3/2500		
BM (30°-60°)	4497.2	10.6	B3/5000		
BH (60°-80°)	1982.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	263.4	0.6			G3/500
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





REPORT NUMBER: P478302
 CATALOG NUMBER: IFLD-L-SA7E-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0
2.5°	5461.2	5479.2	5537.7	5551.1	5614.1	5578.1	5654.5	5789.4	5865.8	5978.2	6113.0
5°	5029.7	4953.3	4989.3	5128.6	5200.5	5218.5	5299.4	5528.7	5672.5	5838.8	6090.5
7.5°	4521.8	4508.3	4580.3	4670.2	4814.0	4827.5	5007.3	5209.5	5506.2	5874.8	6171.4
10°	4175.7	4234.1	4274.6	4369.0	4467.9	4467.9	4697.1	5047.7	5384.8	5739.9	6189.4
12.5°	4157.7	4121.8	4130.8	4180.2	4252.1	4342.0	4557.8	4872.4	5299.4	5713.0	6265.8
15°	4216.2	4229.7	4148.7	4211.7	4238.6	4270.1	4508.3	4863.4	5245.5	5807.3	6396.2
17.5°	4526.3	4449.9	4324.0	4265.6	4360.0	4360.0	4521.8	4800.5	5254.5	5856.8	6585.0
20°	4769.0	4769.0	4562.3	4499.3	4566.8	4553.3	4665.7	4872.4	5299.4	5955.7	6796.2
22.5°	5178.1	5236.5	4894.9	4764.5	4760.0	4796.0	4894.9	5070.2	5425.3	6095.0	6998.5
25°	5766.9	5780.4	5384.8	5250.0	5106.2	5164.6	5182.6	5357.9	5537.7	6256.8	7227.7
27.5°	6423.1	6414.2	6050.1	5713.0	5618.6	5632.0	5533.2	5650.0	5704.0	6306.3	7555.8
30°	7151.3	7070.4	6796.2	6319.8	6243.3	6157.9	5942.2	5937.7	6050.1	6585.0	8009.8
32.5°	7627.8	7524.4	7335.6	6994.0	6782.7	6791.7	6450.1	6445.6	6346.7	6890.6	8405.4
35°	8095.2	7937.9	7888.5	7537.9	7326.6	7349.1	7074.9	7038.9	6859.1	7353.6	9057.1
37.5°	8657.1	8517.7	8594.2	8329.0	8068.3	7960.4	7834.5	7789.6	7555.8	8005.3	9947.1
40°	9277.4	9232.4	9183.0	9052.6	8895.3	8904.3	8769.5	8724.5	8378.4	8791.9	10801.1
42.5°	10113.4	9942.6	9686.4	9771.8	9852.7	9938.1	9893.2	9776.3	9416.7	9592.0	11754.0
45°	10891.0	10666.3	10194.3	10221.3	10553.9	10621.3	11165.2	11151.7	10428.1	10607.8	12837.3
47.5°	11416.9	11313.5	11030.4	10998.9	11475.4	11470.9	12450.7	12450.7	11493.3	11619.2	14001.5
50°	12199.0	11929.3	11808.0	11965.3	12208.0	12374.3	13763.2	13848.6	12540.6	12675.5	15525.2
52.5°	13116.0	12778.9	12473.2	12877.7	13309.3	13417.1	15062.2	15026.3	13345.2	13902.6	17309.7
55°	13875.6	13704.8	13493.5	13727.3	14433.0	14567.8	16365.8	16033.1	14149.8	14918.4	18168.2
57.5°	14761.1	14864.5	14909.4	14851.0	15691.5	15902.8	17853.5	16900.6	14842.0	15601.6	18671.6
60°	16096.1	16159.0	16217.4	16356.8	17246.7	17543.4	19031.2	17988.4	15278.0	15997.2	18712.1
62.5°	18127.7	17885.0	18015.4	18496.3	19211.0	19548.1	20766.2	18752.5	15610.6	16235.4	17390.6
65°	20451.6	20123.4	19988.6	20608.9	22460.8	22191.1	22932.7	19323.4	15129.7	15345.4	14747.6
67.5°	22806.9	22842.8	22496.7	23741.8	26011.7	26011.7	24946.4	19597.6	13826.2	12437.3	10342.7
70°	24676.7	24789.1	24977.9	27391.6	30987.5	31531.4	27441.1	18473.8	11169.7	8279.5	5654.5
72.5°	24649.8	24312.7	25279.0	29724.5	35509.3	35055.3	27962.5	14608.3	6971.5	4054.4	2593.5
73°	24096.9	23813.7	24870.0	29702.0	35693.6	35266.6	27580.4	13466.6	6149.0	3515.0	2305.9
75°	19678.5	19166.0	20964.0	26901.7	33023.7	33351.8	23431.7	8782.9	3371.1	2166.5	1622.6
77.5°	8971.7	9196.5	11538.3	18046.8	25449.8	25836.4	15403.9	3798.1	1847.4	1519.3	1195.6
80°	2881.2	3025.0	4490.4	8971.7	15952.2	16648.9	7119.8	1726.0	1317.0	1164.2	894.5
82.5°	1101.2	1096.7	1883.3	3730.7	7560.3	8005.3	2602.5	1051.8	979.9	858.5	633.8
85°	386.6	404.5	710.2	1474.3	2975.6	3114.9	903.5	584.3	678.7	575.3	364.1
87.5°	134.8	139.3	251.7	534.9	1024.8	1083.3	251.7	233.7	337.1	332.6	184.3
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: P478302
 CATALOG NUMBER: IFLD-L-SA7E-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0	6095.0
2.5°	6157.9	6198.4	6211.9	6373.7	6373.7	6373.7	6436.6	6436.6	6418.6	6373.7	6481.6
5°	6184.9	6256.8	6396.2	6535.5	6571.5	6602.9	6688.3	6616.4	6643.4	6598.4	6638.9
7.5°	6261.3	6360.2	6620.9	6706.3	6647.9	6715.3	6625.4	6576.0	6526.5	6544.5	6481.6
10°	6391.7	6517.5	6638.9	6796.2	6683.8	6616.4	6432.1	6387.2	6229.9	6175.9	6225.4
12.5°	6553.5	6706.3	6913.1	6854.6	6638.9	6445.6	6247.8	6059.1	5964.7	5829.8	5865.8
15°	6715.3	6890.6	6922.1	6823.2	6553.5	6310.8	5951.2	5686.0	5591.6	5470.2	5533.2
17.5°	6890.6	7056.9	7003.0	6746.8	6382.7	6014.1	5605.1	5344.4	5146.6	5070.2	5070.2
20°	7151.3	7232.2	7146.8	6620.9	6175.9	5690.5	5294.9	4998.3	4800.5	4769.0	4719.6
22.5°	7353.6	7483.9	7101.9	6436.6	5874.8	5268.0	4814.0	4701.6	4643.2	4593.7	4530.8
25°	7614.3	7609.8	7021.0	6265.8	5357.9	4764.5	4490.4	4481.4	4454.4	4436.4	4521.8
27.5°	7861.5	7758.1	6926.6	5843.3	4823.0	4382.5	4234.1	4333.0	4373.5	4346.5	4382.5
30°	8252.5	8081.7	6791.7	5393.8	4351.0	3995.9	4022.9	4157.7	4225.2	4265.6	4211.7
32.5°	8666.1	8405.4	6513.0	4926.4	3933.0	3753.2	3816.1	3955.5	4036.4	4081.3	4130.8
35°	9263.9	8657.1	6229.9	4315.1	3631.8	3604.9	3640.8	3717.2	3834.1	3865.6	3879.1
37.5°	10001.0	9039.1	5847.8	3825.1	3398.1	3429.6	3465.5	3492.5	3497.0	3555.4	3533.0
40°	10738.2	9362.8	5290.4	3357.7	3155.4	3326.2	3308.2	3258.8	3218.3	3164.4	3150.9
42.5°	11385.5	9646.0	4670.2	2962.1	2939.6	3218.3	3159.9	3034.0	2939.6	2899.2	2831.8
45°	12113.6	10046.0	4045.4	2714.9	2773.3	3088.0	3070.0	2876.7	2755.3	2611.5	2593.5
47.5°	13057.5	10464.0	3447.6	2458.7	2616.0	3038.5	3047.5	2800.3	2625.0	2431.7	2404.7
50°	14266.7	11066.3	2993.6	2350.8	2521.6	2966.6	2980.1	2696.9	2467.7	2269.9	2251.9
52.5°	15426.3	11682.1	2616.0	2184.5	2458.7	2881.2	2912.7	2602.5	2337.3	2090.1	2103.6
55°	16010.7	11457.4	2292.4	2063.1	2314.8	2741.9	2858.7	2535.1	2139.5	1968.7	1964.2
57.5°	16141.0	10904.5	2036.2	1937.3	2193.5	2593.5	2768.8	2332.8	2049.7	1905.8	1887.8
60°	15714.0	9938.1	1833.9	1802.4	2040.7	2440.7	2562.1	2225.0	1959.8	1842.9	1815.9
62.5°	14662.2	8935.8	1694.6	1739.5	1910.3	2274.4	2431.7	2148.5	1874.4	1793.4	1735.0
65°	12023.7	7349.1	1582.2	1618.1	1775.5	2112.6	2350.8	2063.1	1797.9	1721.5	1717.0
67.5°	8329.0	5065.7	1492.3	1559.7	1667.6	1995.7	2269.9	1968.7	1699.1	1672.1	1636.1
70°	4265.6	2701.4	1375.4	1429.4	1550.7	1847.4	2126.1	1869.9	1595.7	1591.2	1546.2
72.5°	2162.0	1582.2	1240.6	1321.5	1406.9	1654.1	1946.3	1739.5	1465.3	1415.9	1344.0
73°	1869.9	1465.3	1218.1	1290.0	1370.9	1600.2	1892.3	1708.0	1447.3	1375.4	1308.0
75°	1361.9	1155.2	1092.2	1164.2	1227.1	1442.8	1712.5	1564.2	1330.5	1254.1	1191.1
77.5°	1020.3	890.0	908.0	988.9	1042.8	1245.1	1523.8	1415.9	1204.6	1101.2	1074.3
80°	750.6	678.7	750.6	827.1	867.5	1096.7	1388.9	1227.1	1015.8	899.0	876.5
82.5°	534.9	494.4	579.8	629.3	647.3	908.0	1249.6	979.9	768.6	615.8	566.4
85°	305.6	301.2	391.1	386.6	400.0	530.4	822.6	651.8	494.4	377.6	368.6
87.5°	134.8	148.3	197.8	157.3	166.3	251.7	350.6	242.7	202.3	112.4	85.4
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)