

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: P476745

Luminaire Tested: **IFLD-L-SA8C-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

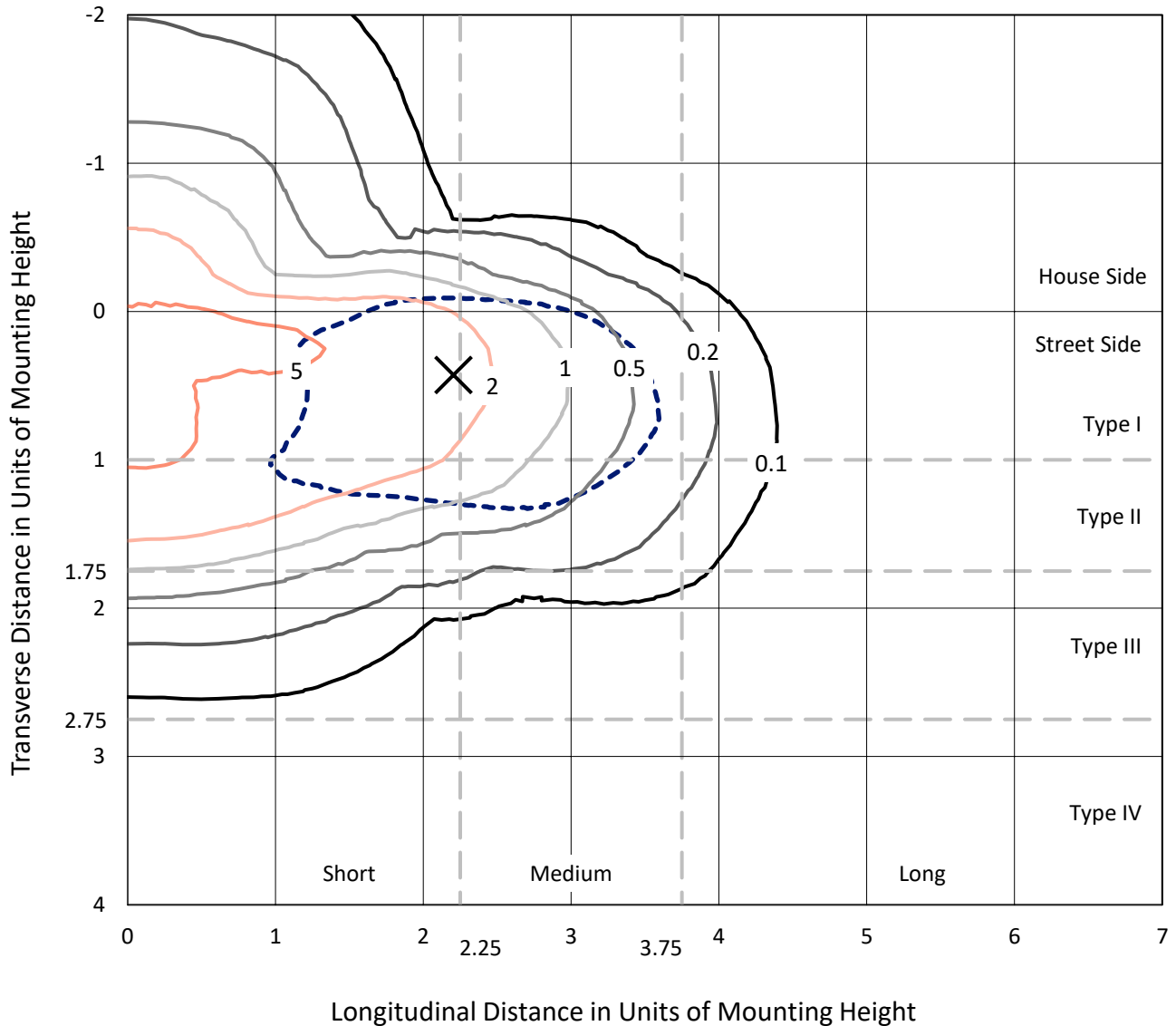
Lumens per Lamp: N/A
Luminaire Lumens: 37198.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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

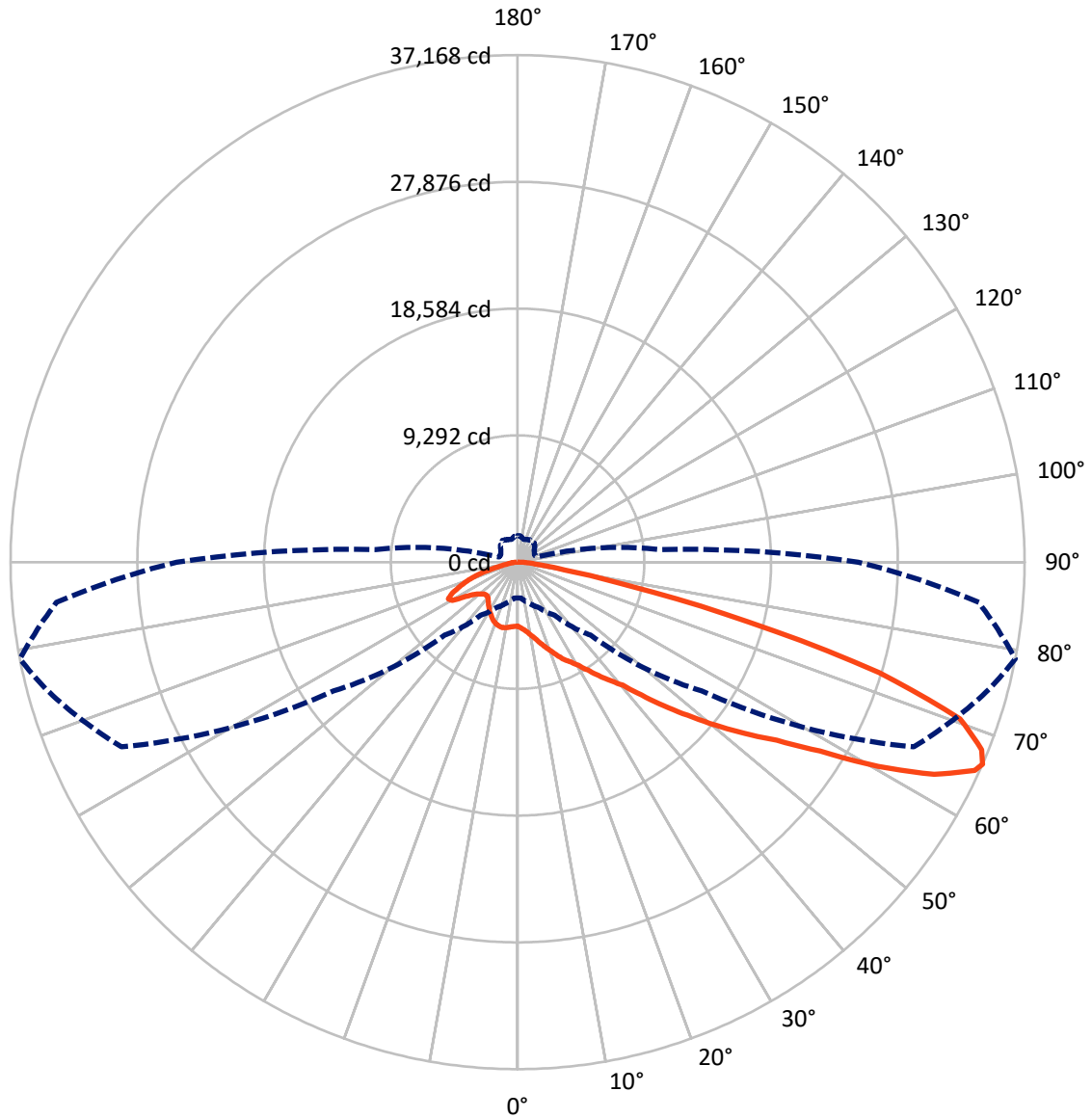
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7511.7	0.0	7511.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	29686.5	0.0	29686.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	37198.2	0.0	37198.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	1.2
10°-20°	1426.2	3.8
20°-30°	2448.1	6.6
30°-40°	3781.9	10.2
40°-50°	6057.6	16.3
50°-60°	9044.5	24.3
60°-70°	9293.2	25.0
70°-80°	4119.5	11.1
80°-90°	565.2	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°	37198.2	100.0
0°-180°	37198.2	100.0



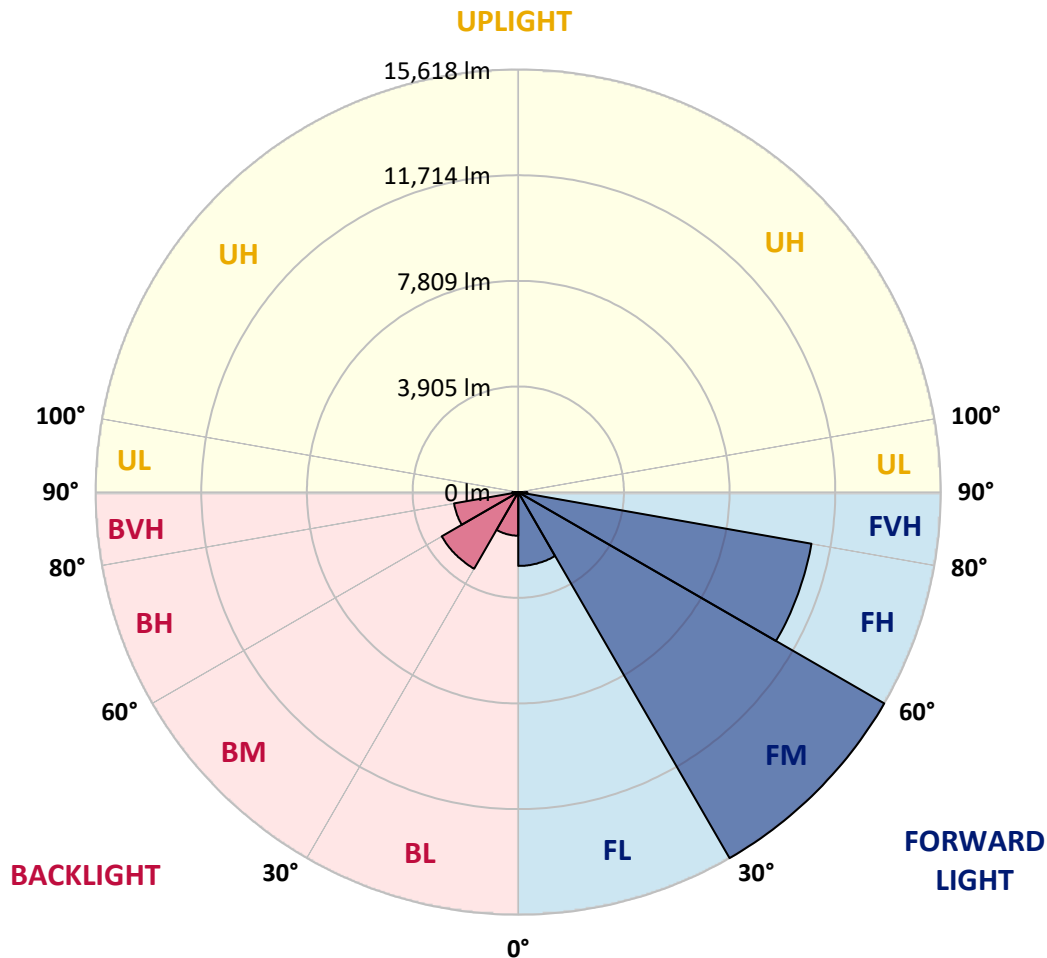
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2726.9	7.3			
FM (30°-60°)	15618.3	42.0			
FH (60°-80°)	11002.4	29.6			G4/12000
FVH (80°-90°)	339.0	0.9			G3/500
BL (0°-30°)	1609.4	4.3	B3/2500		
BM (30°-60°)	3265.7	8.8	B3/5000		
BH (60°-80°)	2410.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	226.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1
2.5°	4995.8	4999.9	4999.9	4983.5	4987.6	4999.9	4954.9	4856.7	4856.7	4840.3	4811.7
5°	5302.6	5282.2	5253.5	5257.6	5241.3	5241.3	5192.2	5098.1	5016.2	4983.5	4897.6
7.5°	5343.6	5364.0	5359.9	5409.0	5433.6	5433.6	5458.1	5380.4	5257.6	5179.9	5094.0
10°	5425.4	5372.2	5368.1	5482.7	5519.5	5605.4	5703.6	5662.7	5560.4	5449.9	5335.4
12.5°	5474.5	5507.2	5507.2	5564.5	5650.4	5777.3	5949.1	6026.8	5867.3	5752.7	5576.8
15°	5548.1	5503.1	5634.1	5683.2	5846.8	5936.8	6182.3	6382.8	6276.4	6137.3	5859.1
17.5°	5580.9	5552.2	5625.9	5715.9	5994.1	6129.1	6427.8	6706.0	6616.0	6526.0	6239.6
20°	5748.6	5744.5	5777.3	5850.9	6051.4	6317.3	6689.7	7074.3	7107.0	6943.4	6554.7
22.5°	6157.8	6104.6	6104.6	6075.9	6161.9	6436.0	6939.3	7471.2	7618.5	7426.2	6910.6
25°	6534.2	6607.8	6562.8	6431.9	6399.2	6542.4	7119.3	7892.6	8089.0	7909.0	7393.4
27.5°	7017.0	7041.5	7119.3	6943.4	6718.3	6763.3	7315.7	8129.9	8535.0	8293.6	7667.6
30°	7712.6	7667.6	7651.2	7454.8	7160.2	7098.8	7540.7	8477.7	9120.1	8780.5	7990.8
32.5°	8183.1	8293.6	8289.5	8019.4	7663.5	7528.4	7818.9	8805.0	9746.1	9431.0	8588.2
35°	9116.0	9230.5	9140.5	8743.6	8326.3	8056.3	8219.9	9230.5	10462.1	10216.6	9095.5
37.5°	10306.6	10576.6	10384.3	9652.0	9062.8	8768.2	8776.4	9692.9	11194.5	10994.0	9639.7
40°	11129.0	11493.1	11227.2	10539.8	9913.8	9635.6	9525.1	10241.1	12070.1	11857.3	10490.7
42.5°	12147.8	12450.6	12311.5	11632.3	10899.9	10662.6	10441.6	11157.6	13408.0	13309.8	11583.2
45°	13260.7	13403.9	13358.9	12929.3	12115.1	12033.2	11546.3	12364.6	14983.2	15024.2	12949.7
47.5°	14295.9	14373.6	14459.5	14148.6	13641.2	13710.8	12818.8	13657.6	16513.5	16783.5	14471.8
50°	14561.8	14827.8	15028.2	15236.9	15347.4	15817.9	14222.2	15245.1	18272.8	18796.6	16165.7
52.5°	14291.8	14271.3	14880.9	15535.6	16640.3	17626.4	16133.0	17217.2	19827.6	20862.8	17716.4
55°	13064.3	13023.4	14005.4	14872.8	17029.0	18632.9	18862.0	19844.0	21705.6	23051.8	19815.4
57.5°	10916.2	10662.6	11734.6	13158.4	16186.2	18743.4	21603.4	23743.2	24594.3	26128.6	23019.0
60°	7336.1	7229.8	8256.7	9954.7	13142.0	17176.3	23244.1	28624.4	28665.4	30392.0	27990.3
62.5°	4517.1	4537.5	5196.3	6468.7	9201.9	13616.7	22536.2	32523.7	32531.9	34262.6	32081.8
65°	2954.1	2966.4	3498.3	4202.0	5748.6	9234.6	18637.0	32830.6	35220.0	36828.0	33955.7
66°	2630.9	2635.0	3093.2	3666.0	4762.6	7557.1	16460.3	32032.7	35825.6	37167.6	33931.2
67.5°	2217.6	2270.8	2639.0	3080.9	3715.1	5429.5	13060.2	29725.1	35514.6	36693.0	33162.0
70°	1734.8	1763.5	2054.0	2504.0	2786.3	3142.3	7761.7	24230.1	32507.3	34418.1	30363.4
72.5°	1391.1	1415.7	1636.6	2033.5	2262.6	2070.3	4226.6	17581.4	25678.5	27716.1	23882.3
75°	1174.3	1178.4	1284.7	1599.8	1861.7	1554.8	2250.3	11284.5	16476.7	17425.9	14631.4
77.5°	949.2	965.6	1039.3	1219.3	1497.5	1223.4	1342.0	6321.4	8273.1	8342.7	6763.3
80°	773.3	781.5	826.5	887.9	1141.5	904.2	908.3	3085.0	3547.4	3465.5	2749.5
82.5°	609.6	617.8	671.0	658.7	838.8	646.5	564.6	1485.2	1632.5	1599.8	1264.3
85°	343.7	343.7	527.8	527.8	531.9	409.2	343.7	699.7	863.3	806.0	593.3
87.5°	110.5	114.6	159.6	167.8	266.0	184.1	167.8	261.9	409.2	360.1	212.8
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°	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1	4697.1
2.5°	4795.3	4729.8	4701.2	4607.1	4582.5	4521.2	4492.5	4455.7	4443.4	4390.2	4439.3
5°	4832.1	4811.7	4697.1	4578.4	4488.4	4447.5	4386.1	4304.3	4296.1	4222.5	4214.3
7.5°	4987.6	4918.0	4717.6	4590.7	4410.7	4308.4	4173.4	4132.5	4079.3	4054.7	4107.9
10°	5229.0	5053.1	4754.4	4435.2	4214.3	4091.5	3993.3	3964.7	3968.8	3952.4	3927.9
12.5°	5400.8	5233.1	4693.0	4304.3	4017.9	3899.2	3891.1	3919.7	3964.7	3944.2	3972.9
15°	5646.3	5331.3	4648.0	4087.5	3858.3	3825.6	3821.5	3907.4	3903.3	3903.3	3899.2
17.5°	5875.5	5429.5	4484.3	3899.2	3690.6	3715.1	3743.8	3739.7	3780.6	3797.0	3825.6
20°	6166.0	5544.0	4255.2	3711.0	3563.7	3555.6	3551.5	3555.6	3596.5	3621.0	3600.6
22.5°	6419.6	5568.6	4062.9	3531.0	3412.3	3379.6	3326.4	3379.6	3359.2	3367.3	3391.9
25°	6640.6	5572.7	3788.8	3396.0	3261.0	3187.3	3146.4	3142.3	3105.5	3101.4	3101.4
27.5°	6824.7	5433.6	3547.4	3207.8	3080.9	3011.4	3007.3	2962.3	2868.2	2806.8	2815.0
30°	6967.9	5327.2	3379.6	3044.1	2921.4	2909.1	2872.3	2770.0	2647.2	2569.5	2569.5
32.5°	7221.6	5114.4	3150.5	2876.4	2815.0	2798.6	2712.7	2622.7	2508.1	2434.5	2422.2
35°	7409.8	4918.0	2999.1	2733.2	2704.5	2671.8	2598.1	2499.9	2467.2	2450.8	2463.1
37.5°	7622.5	4697.1	2815.0	2610.4	2639.0	2577.7	2491.8	2446.7	2561.3	2532.7	2544.9
40°	7962.1	4541.6	2635.0	2536.8	2565.4	2495.8	2385.4	2369.0	2512.2	2409.9	2385.4
42.5°	8584.1	4537.5	2524.5	2426.3	2446.7	2393.6	2295.4	2287.2	2344.5	2221.7	2184.9
45°	9357.4	4680.7	2442.7	2344.5	2328.1	2319.9	2287.2	2250.3	2201.3	2041.7	2000.8
47.5°	10282.1	4913.9	2426.3	2221.7	2242.2	2311.7	2270.8	2176.7	2049.9	1947.6	1927.1
50°	11403.1	5396.7	2385.4	2131.7	2168.5	2279.0	2246.3	2115.3	2000.8	1935.3	1923.0
52.5°	12642.9	6006.4	2332.2	1992.6	2074.4	2250.3	2266.7	2144.0	1976.2	1918.9	1910.8
55°	14103.6	6906.5	2270.8	1841.2	1963.9	2221.7	2266.7	2062.1	1943.5	1943.5	1935.3
57.5°	16988.1	8526.8	2144.0	1702.1	1865.7	2168.5	2201.3	2066.2	1947.6	1947.6	1931.2
60°	21218.8	11055.4	1902.6	1595.7	1771.6	2094.9	2152.2	2004.9	1902.6	1927.1	1923.0
62.5°	24528.8	11824.6	1698.0	1493.4	1677.5	1959.8	2086.7	1939.4	1849.4	1939.4	1947.6
65°	25236.6	11047.2	1489.3	1382.9	1546.6	1828.9	1992.6	1845.3	1771.6	1947.6	1955.8
66°	24983.0	10441.6	1415.7	1350.2	1489.3	1763.5	1935.3	1812.6	1730.7	1939.4	1943.5
67.5°	23853.7	9533.3	1333.8	1280.7	1411.6	1669.4	1869.8	1767.5	1665.3	1914.8	1878.0
70°	21398.8	8084.9	1194.7	1157.9	1301.1	1513.9	1718.4	1653.0	1563.0	1763.5	1698.0
72.5°	16480.7	6460.5	1047.4	1051.5	1174.3	1354.3	1567.1	1522.1	1444.3	1546.6	1505.7
75°	10036.6	4128.4	912.4	920.6	1022.9	1202.9	1423.9	1391.1	1297.0	1354.3	1333.8
77.5°	4447.5	2045.8	769.2	785.6	867.4	1059.7	1239.7	1186.5	1088.4	1100.6	1092.4
80°	1726.6	969.7	626.0	646.5	699.7	846.9	1027.0	977.9	892.0	875.6	867.4
82.5°	830.6	540.1	482.8	491.0	511.4	675.1	883.8	822.4	707.8	634.2	634.2
85°	417.3	335.5	339.6	311.0	339.6	458.3	597.4	499.2	413.2	368.2	376.4
87.5°	167.8	167.8	167.8	143.2	151.4	216.9	278.2	188.2	171.8	102.3	102.3
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)