

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: P480090

Luminaire Tested: **IFLD-M-SA4D-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480090
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

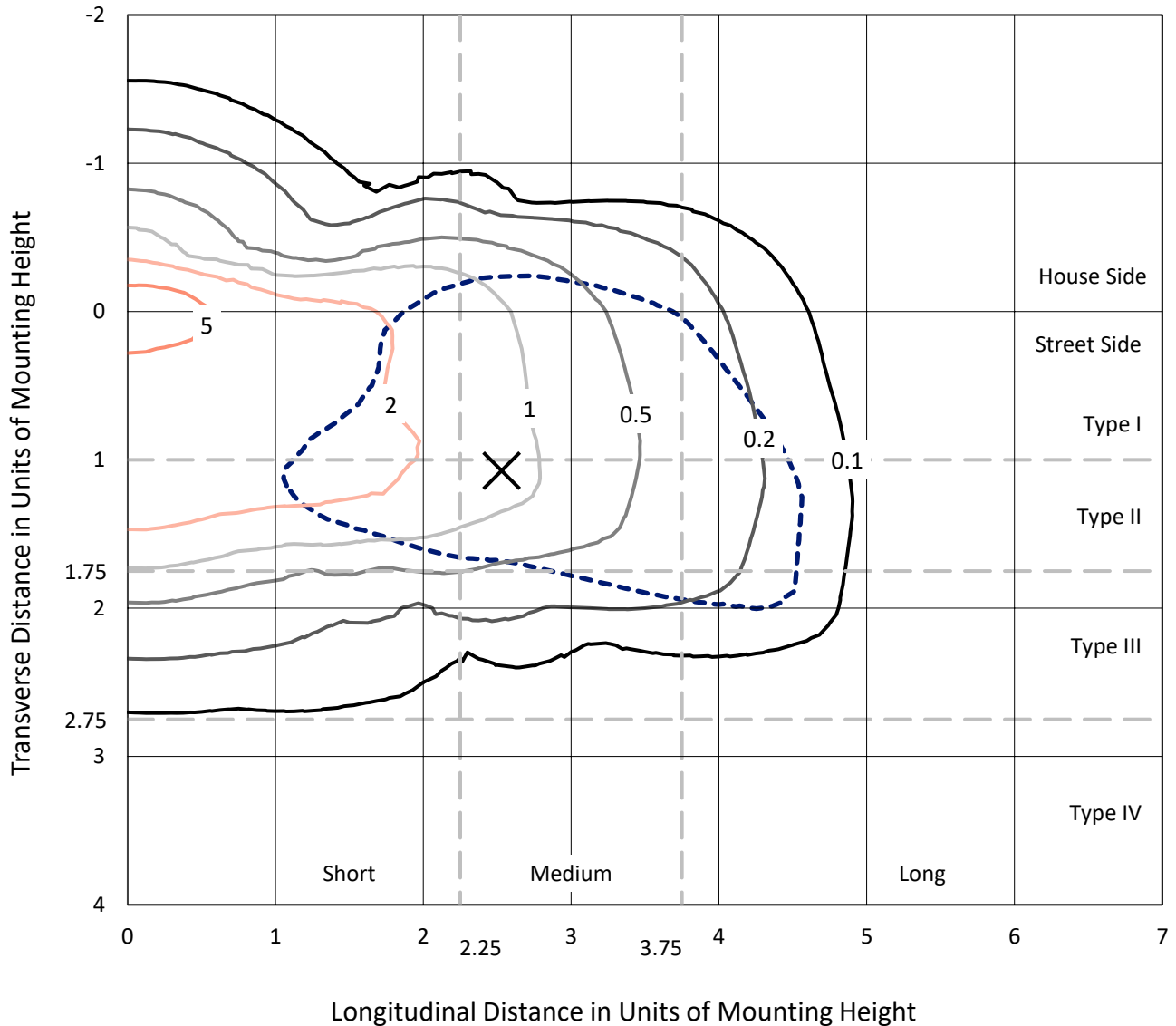
Lumens per Lamp: N/A
Luminaire Lumens: 30764.5 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

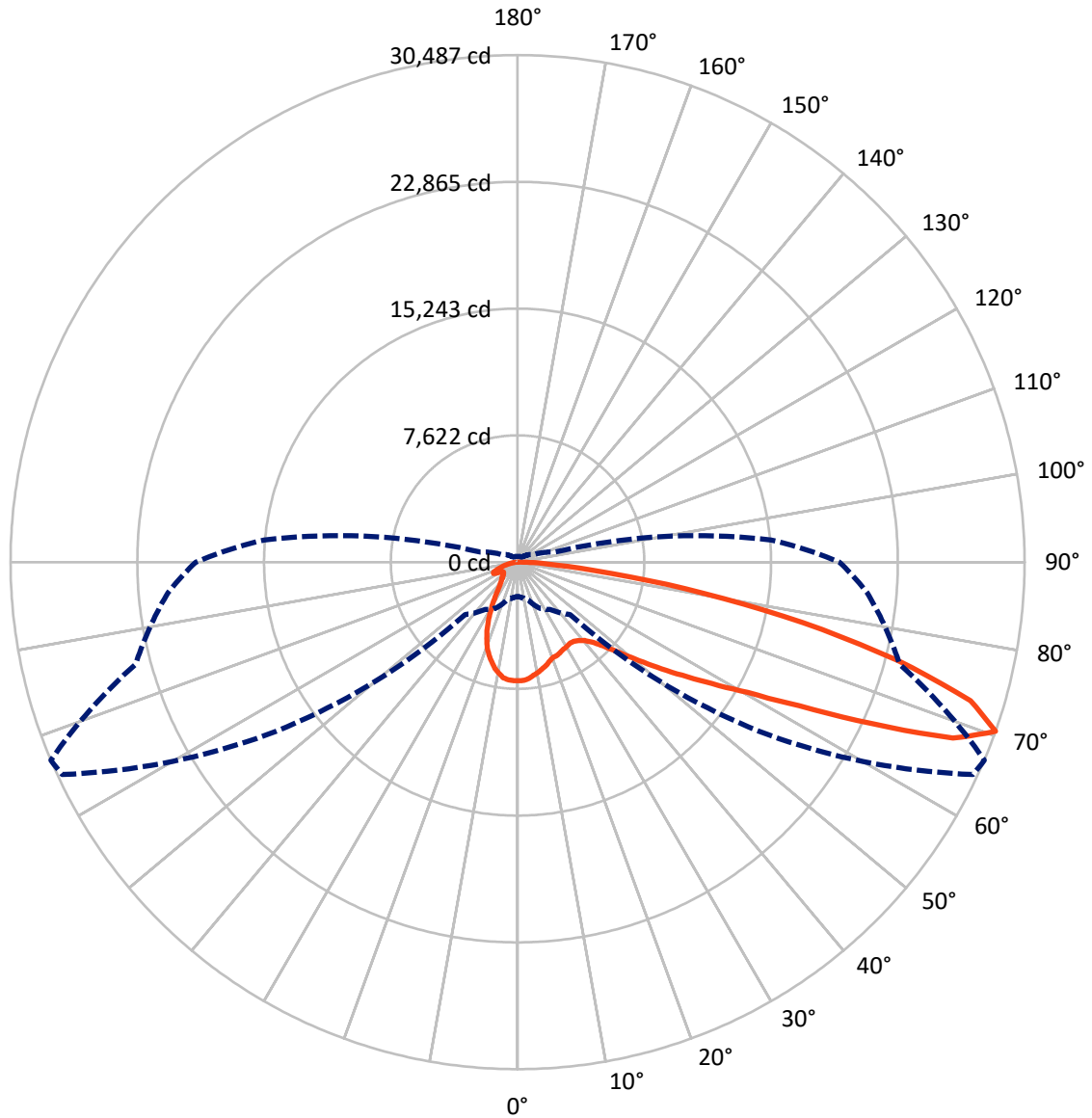
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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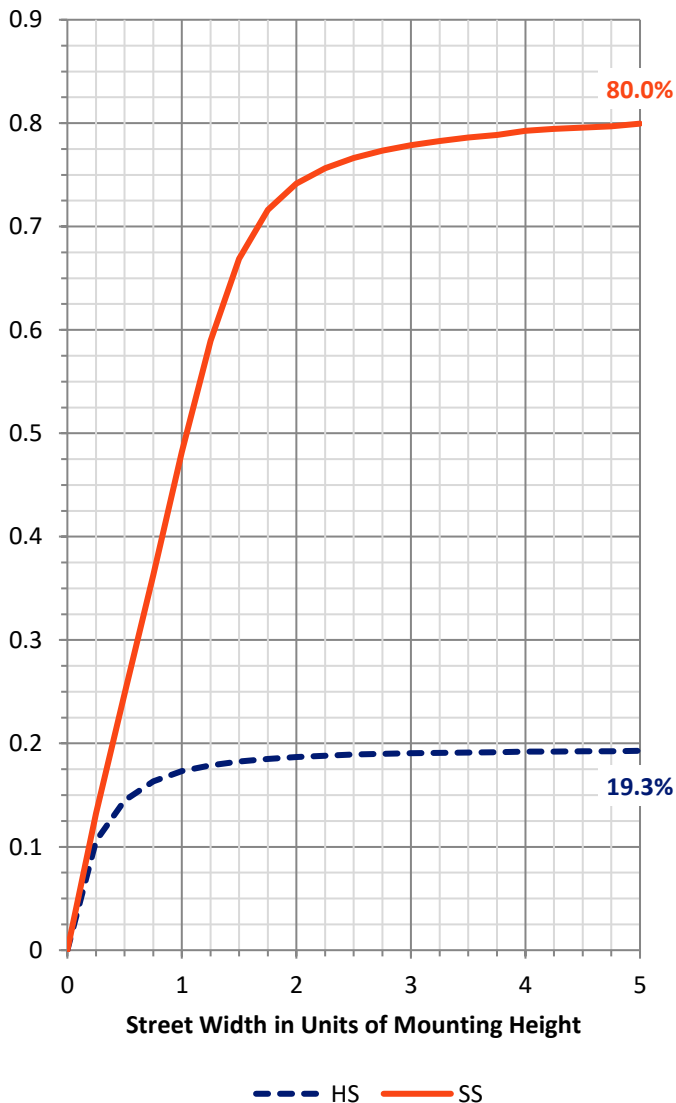
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5991.7	0.0	5991.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	24772.9	0.0	24772.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	30764.5	0.0	30764.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.4	2.0
10°-20°	1488.2	4.8
20°-30°	2009.7	6.5
30°-40°	2689.2	8.7
40°-50°	3954.4	12.9
50°-60°	6164.0	20.0
60°-70°	7593.0	24.7
70°-80°	5365.1	17.4
80°-90°	879.4	2.9
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°	30764.5	100.0
0°-180°	30764.5	100.0



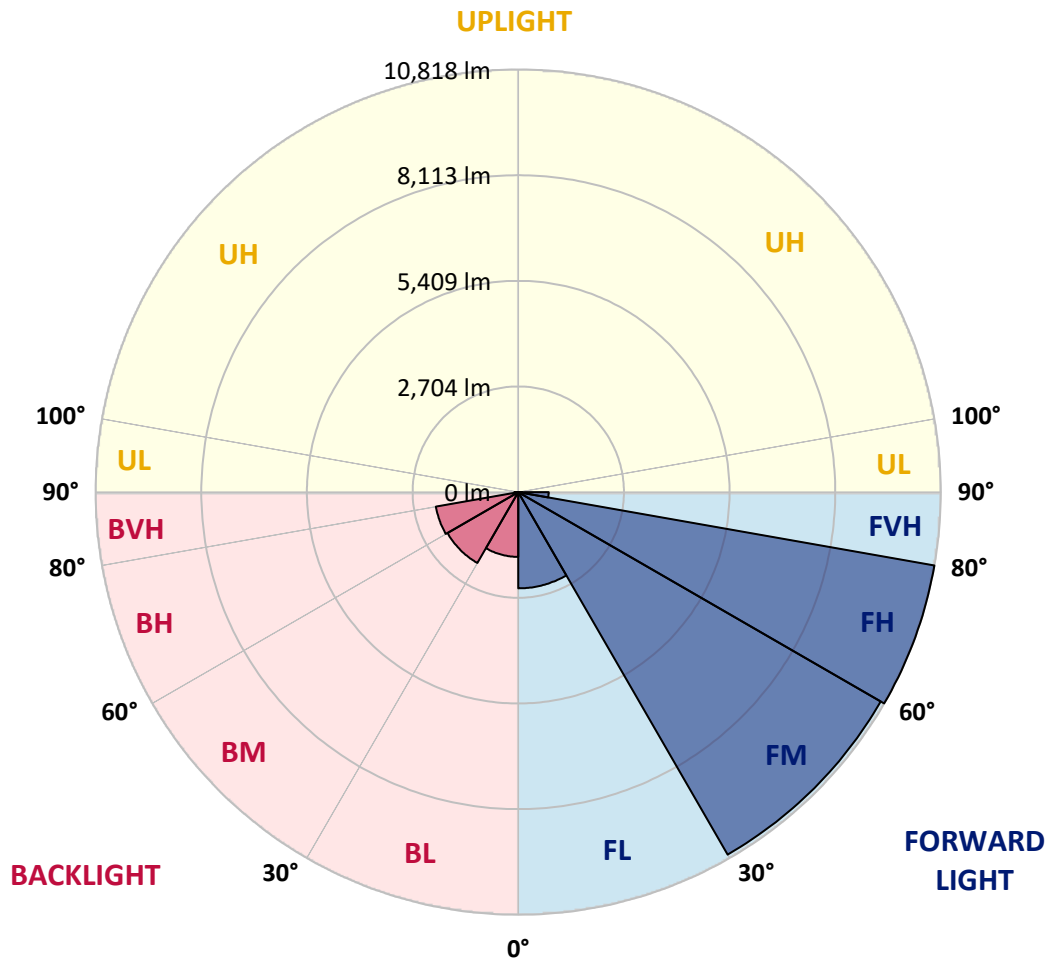
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2462.5	8.0			
FM (30°-60°)	10714.6	34.8			
FH (60°-80°)	10817.8	35.2			G4/12000
FVH (80°-90°)	777.9	2.5			G5
BL (0°-30°)	1656.9	5.4	B3/2500		
BM (30°-60°)	2093.0	6.8	B2/2500		
BH (60°-80°)	2140.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	101.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9
2.5°	6631.4	6706.4	6733.6	6774.5	6880.1	6958.4	7006.1	7060.6	7125.3	7179.8	7213.9
5°	6168.2	6209.1	6273.8	6318.1	6450.9	6662.1	6805.1	7036.7	7029.9	7115.1	7244.5
7.5°	5718.6	5759.5	5790.2	5878.7	6069.5	6260.2	6522.4	6897.1	6869.9	7067.4	7268.4
10°	5439.3	5408.7	5418.9	5568.8	5718.6	5933.2	6263.6	6645.1	6743.8	7050.4	7336.5
12.5°	5177.1	5143.0	5224.8	5320.1	5504.1	5698.2	6093.3	6437.3	6587.2	6989.1	7367.1
15°	5013.6	4989.8	5091.9	5132.8	5350.8	5582.4	5861.7	6280.6	6444.1	6914.1	7319.4
17.5°	4921.6	4942.1	4979.5	5068.1	5207.7	5405.3	5711.8	6175.0	6246.6	6822.2	7309.2
20°	4938.7	4962.5	4965.9	5003.4	5098.7	5252.0	5565.4	6062.6	6110.3	6805.1	7336.5
22.5°	5074.9	5040.8	5054.5	5030.6	5057.9	5177.1	5453.0	5912.8	6096.7	6662.1	7278.6
25°	5279.3	5231.6	5224.8	5143.0	5091.9	5126.0	5432.5	5875.3	5994.5	6617.8	7275.2
27.5°	5640.3	5568.8	5568.8	5446.2	5238.4	5183.9	5374.6	5814.0	5919.6	6576.9	7196.8
30°	5987.7	5987.7	5991.1	5817.4	5585.8	5316.7	5398.5	5790.2	5858.3	6454.3	7091.2
32.5°	6410.0	6399.8	6382.8	6297.7	5940.0	5538.1	5514.3	5759.5	5793.6	6413.5	7060.6
35°	6822.2	6794.9	6927.8	6852.8	6488.4	5970.7	5633.5	5773.1	5848.1	6352.1	6965.2
37.5°	7132.1	7149.1	7425.0	7472.7	7159.4	6461.1	5970.7	5909.4	5980.9	6440.7	6965.2
40°	7534.0	7602.1	7861.0	8021.1	7830.3	7108.3	6505.4	6137.6	6188.7	6638.2	7115.1
42.5°	8061.9	8119.8	8450.2	8658.0	8603.5	7932.5	7033.3	6614.4	6573.5	6968.6	7339.9
45°	8760.2	8770.4	9104.2	9390.3	9502.7	8794.2	7871.2	7217.3	7183.2	7537.4	7752.0
47.5°	9591.2	9581.0	9788.8	10095.3	10398.4	9822.8	8835.1	8133.5	8010.9	8351.5	8436.6
50°	10395.0	10350.8	10398.4	10790.1	11372.6	11110.3	10006.8	9254.0	9131.4	9318.8	9465.2
52.5°	10837.8	10892.3	10762.9	11280.6	12408.0	12632.8	11559.9	10592.6	10487.0	10579.0	10834.4
55°	10527.9	10640.3	10555.1	11045.6	12861.0	14489.0	13569.4	12142.3	12006.1	11972.0	12390.9
57.5°	9209.8	9414.1	9431.1	10207.7	12704.3	15926.3	16396.4	13971.3	13767.0	13419.5	13852.1
60°	7070.8	7275.2	7431.8	8351.5	11362.3	16784.7	19672.9	16573.5	15899.1	14999.9	15258.8
62.5°	4955.7	5095.3	5252.0	5817.4	8760.2	16280.6	22506.7	20238.3	18995.1	16665.4	16989.0
65°	3610.3	3719.3	3879.4	4213.2	5381.4	13470.6	23821.4	24591.2	23412.7	18784.0	18743.1
67.5°	2718.0	2786.1	2997.3	3532.0	3729.5	8320.8	22459.0	29189.2	28235.5	21137.5	20153.2
70°	2057.2	2115.1	2312.7	3044.9	3484.3	4461.8	17717.9	30214.4	30486.9	23777.1	21100.0
72.5°	1416.9	1481.6	1703.0	2537.5	3317.4	3538.8	11120.5	27448.8	28480.8	24863.6	20085.0
75°	868.5	912.8	1042.2	1924.4	3293.6	3460.5	6120.5	22493.1	23586.4	22973.3	17571.4
77.5°	613.1	609.7	633.5	1127.4	2854.2	3480.9	3773.8	16481.5	17544.2	16931.1	11924.3
80°	446.2	449.6	473.4	674.4	1938.0	3538.8	2973.4	11038.8	11355.5	8828.3	4703.7
82.5°	269.1	282.7	340.6	456.4	1164.8	3194.8	2748.6	6134.2	5739.1	2833.8	1294.3
85°	143.1	143.1	201.0	289.5	619.9	2384.2	2646.4	2918.9	2445.5	878.7	480.2
87.5°	34.1	34.1	57.9	115.8	248.6	1141.0	1805.2	1161.4	929.8	296.3	197.5
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°	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9	7121.9
2.5°	7200.2	7159.4	7210.5	7108.3	7026.5	7029.9	6903.9	6897.1	6880.1	6791.5	6822.2
5°	7282.0	7247.9	7190.0	7077.6	6897.1	6716.6	6607.6	6467.9	6410.0	6379.4	6393.0
7.5°	7360.3	7299.0	7132.1	6975.4	6696.2	6355.6	6158.0	5970.7	5732.3	5705.0	5657.3
10°	7380.8	7251.3	7036.7	6703.0	6331.7	5953.6	5504.1	5156.6	4972.7	4829.7	4775.2
12.5°	7350.1	7295.6	6883.5	6454.3	5892.3	5299.7	4775.2	4284.7	3944.1	3767.0	3719.3
15°	7346.7	7251.3	6713.2	6076.3	5357.6	4584.4	3838.5	3249.3	2891.7	2745.2	2745.2
17.5°	7350.1	7121.9	6512.2	5694.8	4727.5	3681.9	2861.0	2377.4	2179.8	2159.4	2176.4
20°	7282.0	7026.5	6301.1	5245.2	3937.3	2765.7	2077.6	1880.1	1880.1	1907.3	1917.6
22.5°	7220.7	6883.5	5967.3	4690.0	3133.5	2002.7	1689.4	1631.5	1696.2	1743.9	1764.3
25°	7135.5	6764.3	5626.7	4114.4	2384.2	1614.4	1468.0	1481.6	1542.9	1628.1	1621.2
27.5°	7012.9	6556.5	5221.4	3446.8	1774.5	1393.0	1355.6	1362.4	1427.1	1464.6	1457.8
30°	6873.3	6345.3	4846.7	2782.7	1406.7	1277.2	1273.8	1290.9	1301.1	1321.5	1318.1
32.5°	6696.2	6066.0	4448.2	2162.8	1267.0	1212.5	1198.9	1188.7	1198.9	1195.5	1185.3
35°	6570.1	5916.2	4042.9	1648.5	1188.7	1154.6	1144.4	1127.4	1113.8	1093.3	1089.9
37.5°	6536.1	5766.3	3617.1	1345.4	1127.4	1110.3	1076.3	1045.6	1028.6	1018.4	1011.6
40°	6515.6	5667.5	3201.6	1181.9	1076.3	1059.3	1018.4	977.5	960.5	950.3	953.7
42.5°	6587.2	5613.0	2779.3	1100.1	1032.0	1001.4	957.1	909.4	906.0	899.2	909.4
45°	6839.2	5681.2	2387.6	1042.2	987.7	936.6	878.7	854.9	851.5	844.7	851.5
47.5°	7411.4	5851.5	2053.8	1004.8	940.0	895.8	834.5	800.4	797.0	793.6	793.6
50°	8201.6	6376.0	1774.5	960.5	909.4	848.1	790.2	752.7	745.9	732.3	732.3
52.5°	9441.4	7258.1	1607.6	936.6	854.9	803.8	742.5	701.6	684.6	671.0	671.0
55°	10837.8	8351.5	1577.0	895.8	797.0	749.3	694.8	653.9	636.9	619.9	613.1
57.5°	12428.4	9799.0	1794.9	868.5	756.1	694.8	633.5	596.0	582.4	565.4	558.6
60°	13910.0	11243.1	2472.7	827.7	718.7	643.7	582.4	545.0	527.9	510.9	510.9
62.5°	15623.2	13031.3	3620.6	827.7	684.6	589.2	527.9	500.7	490.5	473.4	470.0
65°	17649.8	14880.7	4458.4	878.7	674.4	541.6	476.8	449.6	439.4	429.2	425.7
67.5°	19192.7	15943.4	3835.1	1015.0	718.7	500.7	425.7	408.7	401.9	391.7	384.9
70°	19356.2	15296.2	2312.7	1096.7	762.9	459.8	381.5	364.4	364.4	354.2	347.4
72.5°	17888.2	13572.8	1556.5	977.5	691.4	412.1	337.2	323.6	316.8	309.9	306.5
75°	14969.3	11512.2	1229.6	780.0	531.3	340.6	292.9	279.3	269.1	265.7	258.9
77.5°	10054.4	7482.9	909.4	609.7	391.7	275.9	245.2	231.6	221.4	218.0	207.8
80°	3862.4	2850.8	585.8	442.8	275.9	218.0	194.1	180.5	173.7	163.5	156.7
82.5°	1137.6	923.0	327.0	272.5	177.1	149.9	139.6	129.4	119.2	109.0	105.6
85°	470.0	422.3	201.0	143.1	109.0	88.6	81.7	71.5	61.3	54.5	47.7
87.5°	218.0	180.5	92.0	54.5	37.5	20.4	10.2	3.4	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)