

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: P480045

Luminaire Tested: **IFLD-S-SA6C-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480045
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

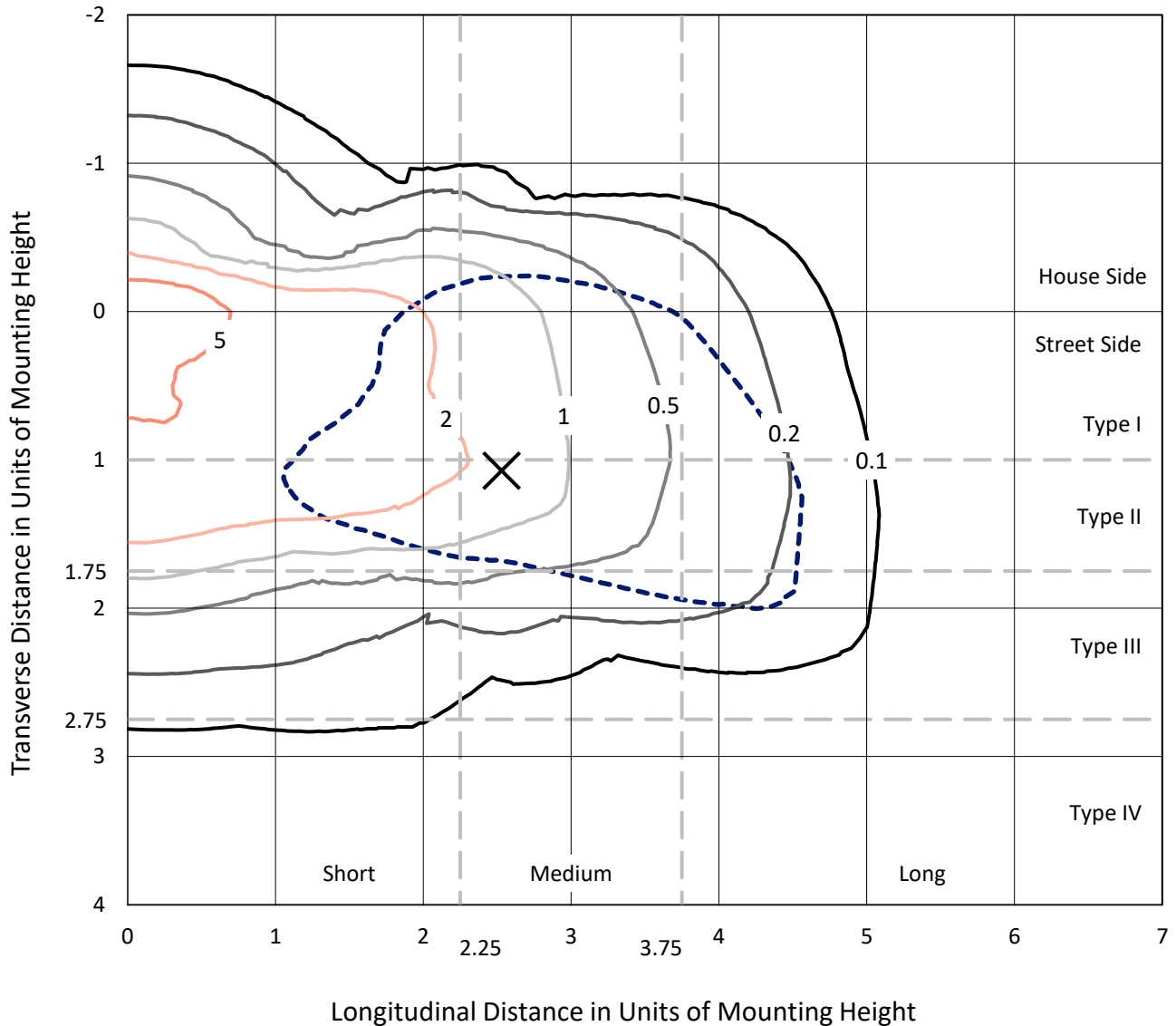
Lumens per Lamp: N/A
Luminaire Lumens: 37725.8 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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

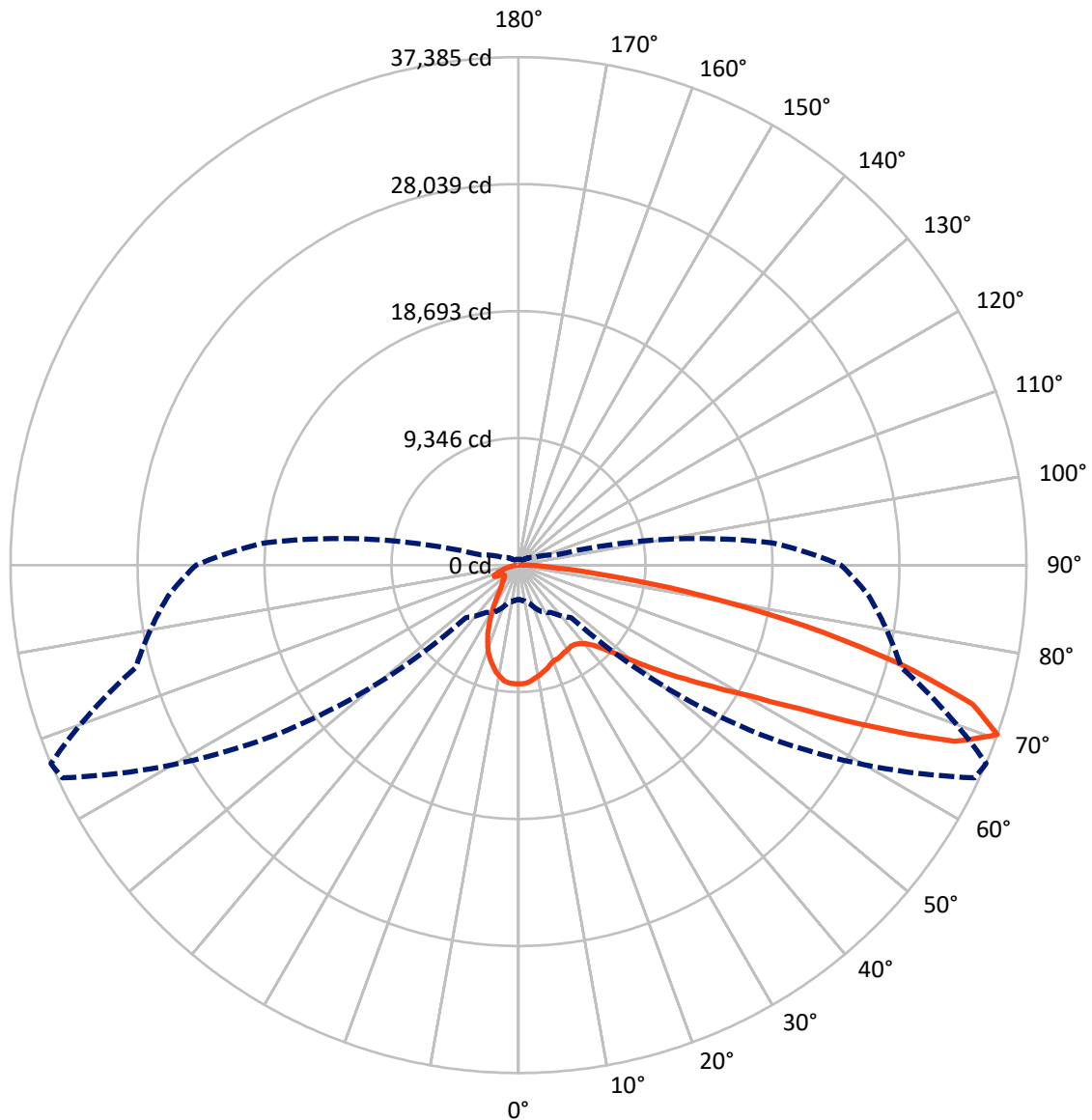
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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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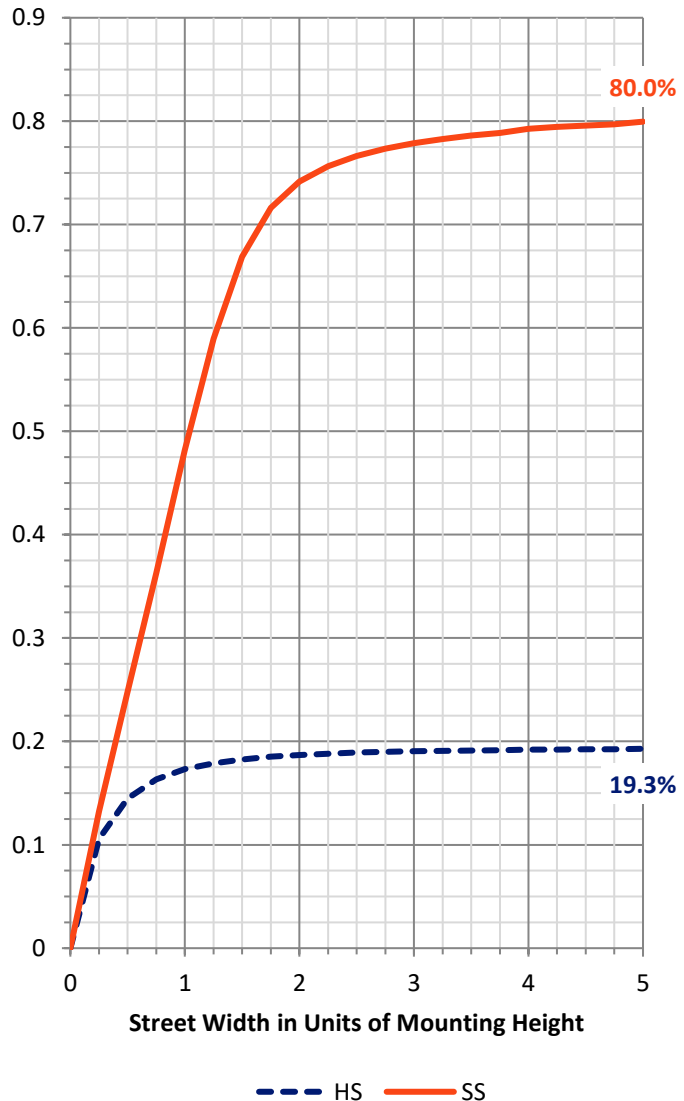
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7347.5	0.0	7347.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	30378.3	0.0	30378.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	37725.8	0.0	37725.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.0	2.0
10°-20°	1825.0	4.8
20°-30°	2464.5	6.5
30°-40°	3297.7	8.7
40°-50°	4849.2	12.9
50°-60°	7558.7	20.0
60°-70°	9311.1	24.7
70°-80°	6579.1	17.4
80°-90°	1078.4	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°	37725.8	100.0
0°-180°	37725.8	100.0

Coefficient of Utilization

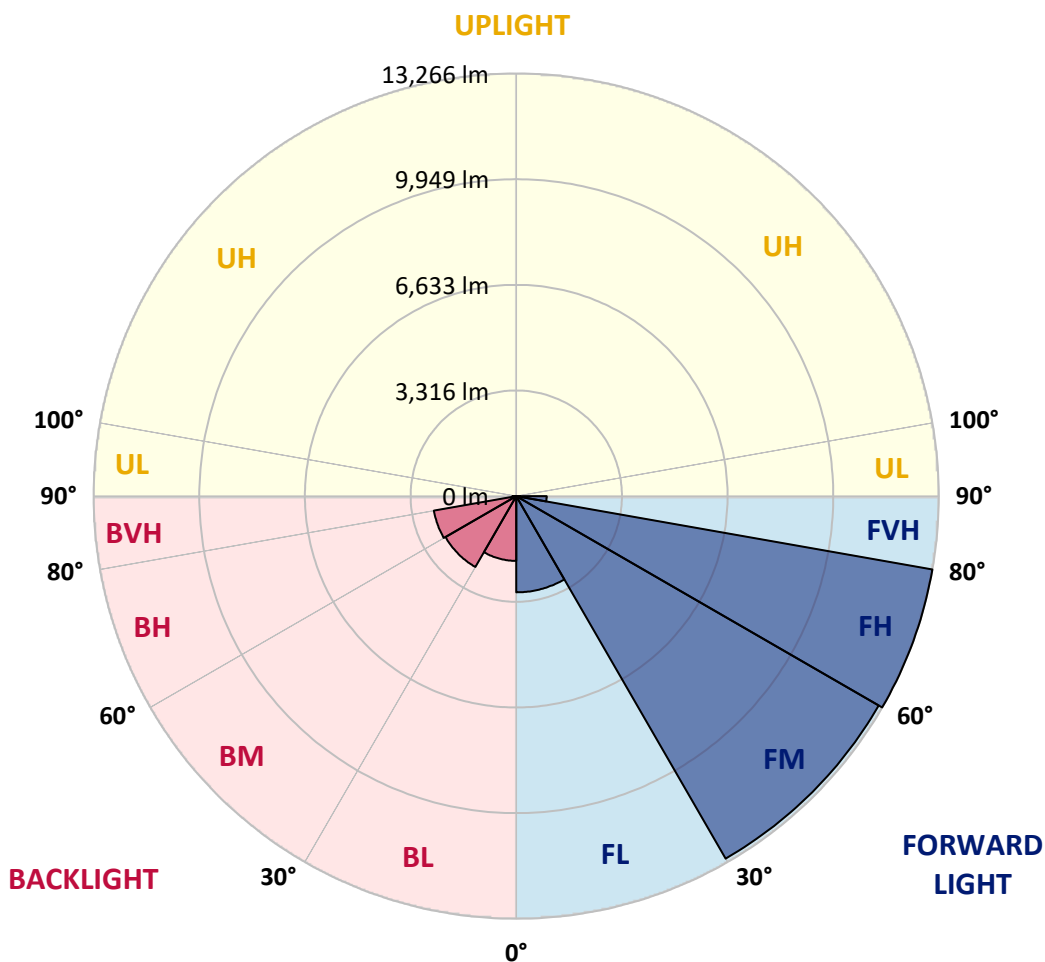


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3019.7	8.0			
FM (30°-60°)	13139.1	34.8			
FH (60°-80°)	13265.6	35.2			G5
FVH (80°-90°)	954.0	2.5			G5
BL (0°-30°)	2031.8	5.4	B3/2500		
BM (30°-60°)	2566.6	6.8	B3/5000		
BH (60°-80°)	2624.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	124.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4
2.5°	8132.0	8223.8	8257.3	8307.4	8436.9	8532.9	8591.4	8658.2	8737.6	8804.4	8846.2
5°	7563.9	7614.1	7693.4	7747.7	7910.6	8169.5	8345.0	8629.0	8620.6	8725.0	8883.8
7.5°	7012.6	7062.7	7100.3	7208.9	7442.8	7676.7	7998.3	8457.7	8424.3	8666.6	8913.0
10°	6670.1	6632.5	6645.1	6828.8	7012.6	7275.7	7680.9	8148.7	8269.8	8645.7	8996.5
12.5°	6348.5	6306.8	6407.0	6523.9	6749.5	6987.6	7472.0	7893.9	8077.7	8570.5	9034.1
15°	6148.0	6118.8	6244.1	6294.2	6561.5	6845.5	7188.0	7701.8	7902.2	8478.6	8975.6
17.5°	6035.3	6060.3	6106.3	6214.9	6386.1	6628.4	7004.3	7572.3	7660.0	8365.8	8963.1
20°	6056.2	6085.4	6089.6	6135.5	6252.5	6440.4	6824.7	7434.5	7492.9	8345.0	8996.5
22.5°	6223.2	6181.5	6198.2	6168.9	6202.3	6348.5	6686.8	7250.7	7476.2	8169.5	8925.5
25°	6473.8	6415.3	6407.0	6306.8	6244.1	6285.9	6661.8	7204.7	7350.9	8115.2	8921.3
27.5°	6916.5	6828.8	6828.8	6678.5	6423.7	6356.9	6590.8	7129.6	7259.0	8065.1	8825.3
30°	7342.6	7342.6	7346.7	7133.7	6849.7	6519.8	6620.0	7100.3	7183.9	7914.8	8695.8
32.5°	7860.5	7847.9	7827.1	7722.6	7284.1	6791.2	6762.0	7062.7	7104.5	7864.6	8658.2
35°	8365.8	8332.4	8495.3	8403.4	7956.5	7321.7	6908.2	7079.4	7171.3	7789.5	8541.3
37.5°	8745.9	8766.8	9105.1	9163.6	8779.3	7923.1	7321.7	7246.5	7334.2	7898.1	8541.3
40°	9238.8	9322.3	9639.7	9836.0	9602.1	8716.7	7977.4	7526.3	7589.0	8140.3	8725.0
42.5°	9886.2	9957.2	10362.3	10617.1	10550.2	9727.4	8624.8	8111.1	8061.0	8545.4	9000.7
45°	10742.4	10754.9	11164.2	11515.1	11652.9	10784.1	9652.3	8850.3	8808.6	9242.9	9506.1
47.5°	11761.5	11748.9	12003.7	12379.6	12751.3	12045.5	10834.3	9973.9	9823.5	10241.2	10345.6
50°	12747.2	12692.9	12751.3	13231.7	13945.9	13624.3	12271.0	11348.0	11197.6	11427.3	11606.9
52.5°	13290.1	13357.0	13198.2	13833.1	15215.6	15491.2	14175.6	12989.4	12859.9	12972.7	13286.0
55°	12910.1	13047.9	12943.5	13544.9	15771.1	17767.5	16639.8	14889.8	14722.7	14681.0	15194.7
57.5°	11293.7	11544.3	11565.2	12517.4	15578.9	19530.1	20106.4	17132.7	16882.1	16456.0	16986.5
60°	8670.7	8921.3	9113.5	10241.2	13933.3	20582.6	24124.4	20323.6	19496.6	18394.0	18711.4
62.5°	6077.0	6248.3	6440.4	7133.7	10742.4	19964.4	27599.4	24817.7	23293.2	20436.4	20833.2
65°	4427.3	4560.9	4757.2	5166.5	6599.1	16518.7	29211.6	30155.5	28710.4	23034.3	22984.2
67.5°	3333.0	3416.5	3675.5	4331.2	4573.4	10203.6	27540.9	35794.0	34624.5	25920.3	24713.3
70°	2522.7	2593.7	2836.0	3733.9	4272.7	5471.4	21727.0	37051.1	37385.3	29157.3	25874.4
72.5°	1737.5	1816.8	2088.3	3111.6	4068.1	4339.5	13636.8	33659.7	34925.2	30489.6	24629.8
75°	1065.0	1119.3	1278.1	2359.8	4038.8	4243.5	7505.5	27582.7	28923.4	28171.6	21547.4
77.5°	751.8	747.6	776.9	1382.5	3500.0	4268.5	4627.7	20210.9	21514.0	20762.2	14622.5
80°	547.1	551.3	580.6	827.0	2376.5	4339.5	3646.2	13536.6	13925.0	10825.9	5768.0
82.5°	330.0	346.7	417.7	559.7	1428.4	3917.7	3370.6	7522.2	7037.7	3475.0	1587.1
85°	175.4	175.4	246.4	355.0	760.2	2923.7	3245.3	3579.4	2998.8	1077.6	588.9
87.5°	41.8	41.8	71.0	142.0	304.9	1399.2	2213.6	1424.2	1140.2	363.4	242.2
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°	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4	8733.4
2.5°	8829.5	8779.3	8842.0	8716.7	8616.4	8620.6	8466.1	8457.7	8436.9	8328.3	8365.8
5°	8929.7	8887.9	8816.9	8679.1	8457.7	8236.4	8102.7	7931.5	7860.5	7822.9	7839.6
7.5°	9025.8	8950.6	8745.9	8553.8	8211.3	7793.6	7551.4	7321.7	7029.3	6995.9	6937.4
10°	9050.8	8892.1	8629.0	8219.7	7764.4	7300.8	6749.5	6323.5	6097.9	5922.5	5855.7
12.5°	9013.2	8946.4	8441.0	7914.8	7225.6	6498.9	5855.7	5254.2	4836.6	4619.4	4560.9
15°	9009.1	8892.1	8232.2	7451.2	6569.9	5621.8	4707.1	3984.5	3546.0	3366.4	3366.4
17.5°	9013.2	8733.4	7985.8	6983.4	5797.2	4515.0	3508.4	2915.3	2673.1	2648.0	2668.9
20°	8929.7	8616.4	7726.8	6432.1	4828.2	3391.4	2547.8	2305.5	2305.5	2338.9	2351.5
22.5°	8854.5	8441.0	7317.5	5751.3	3842.5	2455.9	2071.6	2000.6	2080.0	2138.4	2163.5
25°	8750.1	8294.8	6899.8	5045.4	2923.7	1979.7	1800.1	1816.8	1892.0	1996.4	1988.1
27.5°	8599.7	8040.1	6402.8	4226.8	2176.0	1708.3	1662.3	1670.7	1750.0	1796.0	1787.6
30°	8428.5	7781.1	5943.4	3412.3	1725.0	1566.2	1562.1	1583.0	1595.5	1620.5	1616.4
32.5°	8211.3	7438.6	5454.7	2652.2	1553.7	1486.9	1470.2	1457.7	1470.2	1466.0	1453.5
35°	8056.8	7254.9	4957.7	2021.5	1457.7	1415.9	1403.4	1382.5	1365.8	1340.7	1336.5
37.5°	8015.0	7071.1	4435.6	1649.8	1382.5	1361.6	1319.8	1282.2	1261.4	1248.8	1240.5
40°	7989.9	6950.0	3926.1	1449.3	1319.8	1298.9	1248.8	1198.7	1177.8	1165.3	1169.5
42.5°	8077.7	6883.1	3408.2	1349.1	1265.5	1227.9	1173.6	1115.2	1111.0	1102.6	1115.2
45°	8386.7	6966.7	2927.8	1278.1	1211.2	1148.6	1077.6	1048.3	1044.2	1035.8	1044.2
47.5°	9088.4	7175.5	2518.5	1232.1	1152.8	1098.5	1023.3	981.5	977.3	973.2	973.2
50°	10057.4	7818.7	2176.0	1177.8	1115.2	1040.0	969.0	923.0	914.7	898.0	898.0
52.5°	11577.7	8900.5	1971.4	1148.6	1048.3	985.7	910.5	860.4	839.5	822.8	822.8
55°	13290.1	10241.2	1933.8	1098.5	977.3	918.9	852.0	801.9	781.0	760.2	751.8
57.5°	15240.6	12016.2	2201.1	1065.0	927.2	852.0	776.9	730.9	714.2	693.3	685.0
60°	17057.5	13787.2	3032.3	1014.9	881.3	789.4	714.2	668.3	647.4	626.5	626.5
62.5°	19158.3	15979.9	4439.8	1014.9	839.5	722.6	647.4	614.0	601.4	580.6	576.4
65°	21643.4	18247.8	5467.2	1077.6	827.0	664.1	584.7	551.3	538.8	526.3	522.1
67.5°	23535.5	19550.9	4702.9	1244.6	881.3	614.0	522.1	501.2	492.8	480.3	472.0
70°	23736.0	18757.4	2836.0	1344.9	935.6	563.8	467.8	446.9	446.9	434.4	426.0
72.5°	21935.8	16644.0	1908.7	1198.7	847.9	505.4	413.5	396.8	388.4	380.1	375.9
75°	18356.4	14117.1	1507.8	956.5	651.6	417.7	359.2	342.5	330.0	325.8	317.4
77.5°	12329.5	9176.1	1115.2	747.6	480.3	338.3	300.7	284.0	271.5	267.3	254.8
80°	4736.3	3495.9	718.4	543.0	338.3	267.3	238.1	221.4	213.0	200.5	192.1
82.5°	1395.0	1131.9	401.0	334.1	217.2	183.8	171.2	158.7	146.2	133.7	129.5
85°	576.4	517.9	246.4	175.4	133.7	108.6	100.2	87.7	75.2	66.8	58.5
87.5°	267.3	221.4	112.8	66.8	45.9	25.1	12.5	4.2	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)