

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: P480046

Luminaire Tested: **IFLD-S-SA6D-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

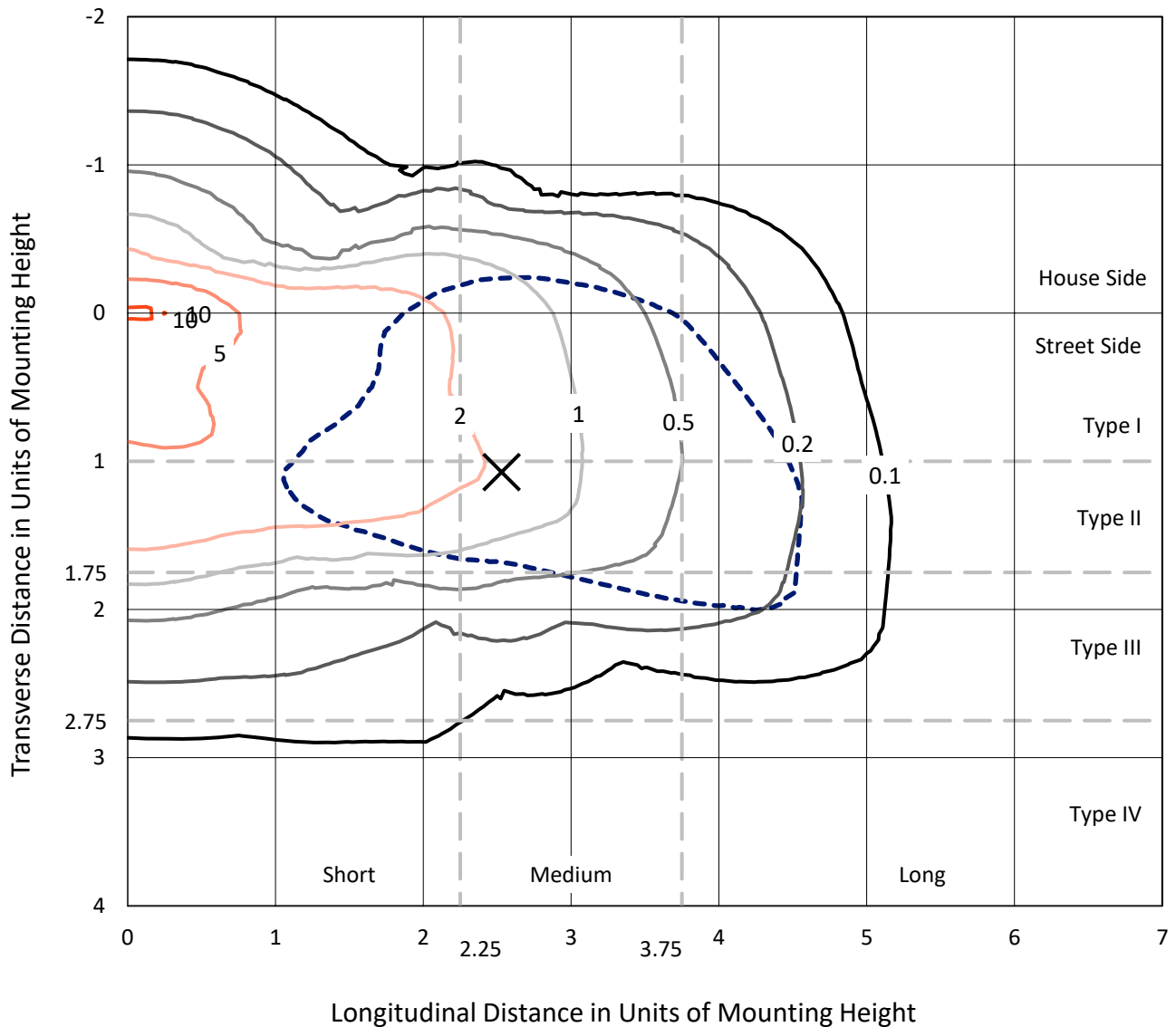
Lumens per Lamp: N/A
Luminaire Lumens: 41511.8 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

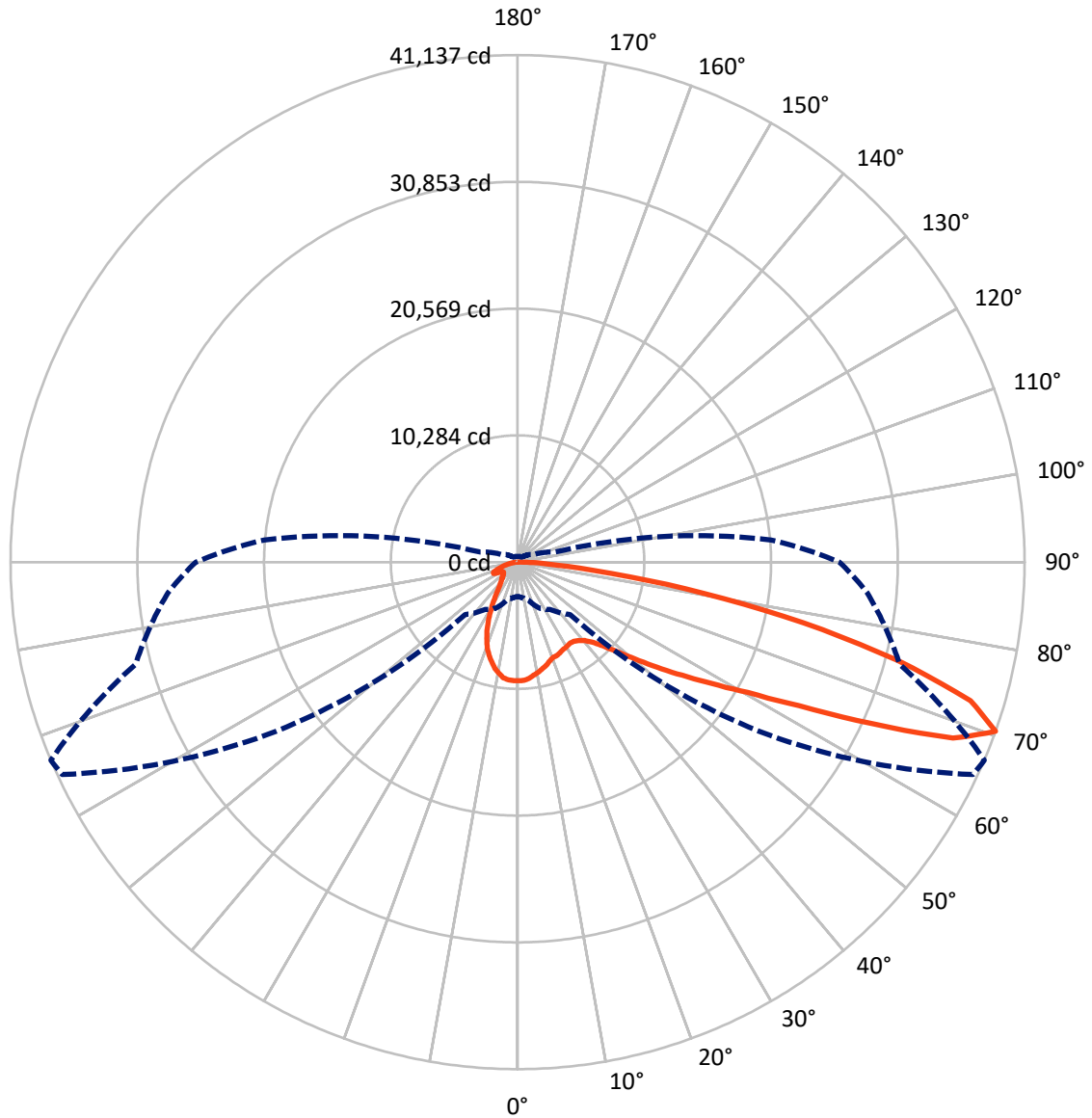
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	8084.8	0.0	8084.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	33427.0	0.0	33427.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	41511.8	0.0	41511.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.5	2.0
10°-20°	2008.1	4.8
20°-30°	2711.8	6.5
30°-40°	3628.7	8.7
40°-50°	5335.9	12.9
50°-60°	8317.3	20.0
60°-70°	10245.5	24.7
70°-80°	7239.4	17.4
80°-90°	1186.6	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°	41511.8	100.0
0°-180°	41511.8	100.0

Coefficient of Utilization



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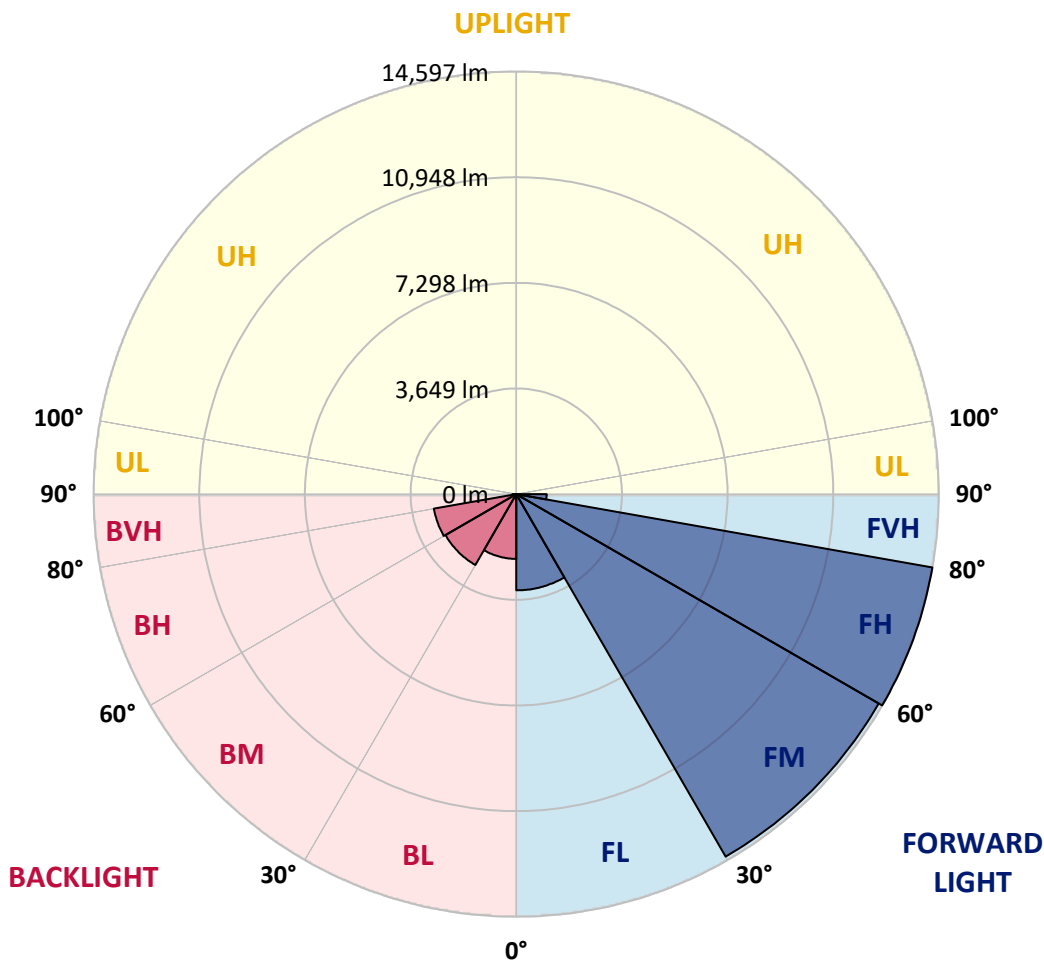
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3322.7	8.0			
FM (30°-60°)	14457.7	34.8			
FH (60°-80°)	14596.9	35.2			G5
FVH (80°-90°)	1049.7	2.5			G5
BL (0°-30°)	2235.7	5.4	B3/2500		
BM (30°-60°)	2824.2	6.8	B3/5000		
BH (60°-80°)	2888.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	136.9	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°	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9
2.5°	8948.1	9049.2	9085.9	9141.1	9283.5	9389.3	9453.6	9527.1	9614.4	9688.0	9733.9
5°	8323.0	8378.2	8465.5	8525.2	8704.5	8989.4	9182.4	9495.0	9485.8	9600.7	9775.3
7.5°	7716.4	7771.5	7812.9	7932.4	8189.7	8447.1	8801.0	9306.5	9269.8	9536.3	9807.5
10°	7339.5	7298.2	7311.9	7514.2	7716.4	8005.9	8451.7	8966.4	9099.7	9513.3	9899.4
12.5°	6985.6	6939.7	7050.0	7178.7	7426.8	7688.8	8221.9	8686.1	8888.3	9430.6	9940.8
15°	6765.0	6732.9	6870.7	6925.9	7220.0	7532.5	7909.4	8474.7	8695.3	9329.5	9876.4
17.5°	6641.0	6668.5	6719.1	6838.6	7027.0	7293.6	7707.2	8332.2	8428.7	9205.4	9862.6
20°	6663.9	6696.1	6700.7	6751.3	6879.9	7086.7	7509.6	8180.6	8244.9	9182.4	9899.4
22.5°	6847.8	6801.8	6820.2	6788.0	6824.8	6985.6	7357.9	7978.3	8226.5	8989.4	9821.3
25°	7123.5	7059.2	7050.0	6939.7	6870.7	6916.7	7330.3	7927.8	8088.6	8929.7	9816.7
27.5°	7610.7	7514.2	7514.2	7348.7	7068.4	6994.8	7252.2	7845.1	7987.5	8874.5	9711.0
30°	8079.4	8079.4	8084.0	7849.7	7537.1	7174.1	7284.4	7812.9	7904.8	8709.1	9568.5
32.5°	8649.3	8635.5	8612.6	8497.7	8015.1	7472.8	7440.6	7771.5	7817.5	8653.9	9527.1
35°	9205.4	9168.7	9347.9	9246.8	8755.0	8056.5	7601.5	7789.9	7891.0	8571.2	9398.4
37.5°	9623.6	9646.6	10018.9	10083.2	9660.4	8718.3	8056.5	7973.7	8070.3	8690.7	9398.4
40°	10165.9	10257.9	10607.1	10823.1	10565.8	9591.5	8778.0	8281.7	8350.6	8957.2	9600.7
42.5°	10878.3	10956.4	11402.2	11682.6	11609.0	10703.7	9490.4	8925.1	8869.9	9403.0	9904.0
45°	11820.4	11834.2	12284.6	12670.7	12822.3	11866.4	10620.9	9738.5	9692.6	10170.5	10460.1
47.5°	12941.8	12928.0	13208.4	13622.0	14031.0	13254.3	11921.5	10974.8	10809.4	11268.9	11383.8
50°	14026.4	13966.7	14031.0	14559.5	15345.4	14991.6	13502.5	12486.8	12321.4	12574.2	12771.8
52.5°	14623.9	14697.4	14522.8	15221.3	16742.6	17045.9	15598.2	14293.0	14150.5	14274.6	14619.3
55°	14205.7	14357.3	14242.4	14904.2	17353.8	19550.6	18309.7	16384.1	16200.3	16154.3	16719.6
57.5°	12427.1	12702.8	12725.8	13773.7	17142.4	21490.0	22124.3	18852.0	18576.3	18107.5	18691.2
60°	9540.9	9816.7	10028.1	11268.9	15331.6	22648.2	26545.4	22363.2	21453.3	20240.0	20589.3
62.5°	6686.9	6875.3	7086.7	7849.7	11820.4	21968.0	30369.2	27308.3	25630.9	22487.3	22923.9
65°	4871.6	5018.6	5234.6	5685.0	7261.4	18176.5	32143.1	33181.8	31591.6	25345.9	25290.8
67.5°	3667.5	3759.4	4044.3	4765.9	5032.4	11227.6	30304.8	39386.1	38099.3	28521.6	27193.4
70°	2775.9	2854.0	3120.6	4108.7	4701.5	6020.5	23907.4	40769.5	41137.2	32083.4	28471.1
72.5°	1911.9	1999.2	2297.9	3423.9	4476.3	4775.1	15005.3	37037.7	38430.2	33549.5	27101.5
75°	1171.9	1231.7	1406.3	2596.6	4444.2	4669.3	8258.7	30350.8	31826.0	30998.8	23709.8
77.5°	827.2	822.7	854.8	1521.2	3851.3	4696.9	5092.2	22239.2	23673.1	22845.8	16090.0
80°	602.1	606.6	638.8	910.0	2615.0	4775.1	4012.1	14895.0	15322.5	11912.4	6346.8
82.5°	363.1	381.5	459.6	615.8	1571.8	4310.9	3708.8	8277.1	7744.0	3823.7	1746.4
85°	193.0	193.0	271.2	390.6	836.4	3217.1	3570.9	3938.6	3299.8	1185.7	648.0
87.5°	46.0	46.0	78.1	156.3	335.5	1539.6	2435.8	1567.2	1254.7	399.8	266.6
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°	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9	9609.9
2.5°	9715.6	9660.4	9729.3	9591.5	9481.2	9485.8	9315.7	9306.5	9283.5	9164.1	9205.4
5°	9825.9	9779.9	9701.8	9550.1	9306.5	9063.0	8915.9	8727.5	8649.3	8608.0	8626.3
7.5°	9931.6	9848.8	9623.6	9412.2	9035.4	8575.8	8309.2	8056.5	7734.8	7698.0	7633.7
10°	9959.1	9784.5	9495.0	9044.6	8543.6	8033.5	7426.8	6958.1	6709.9	6516.9	6443.3
12.5°	9917.8	9844.2	9288.1	8709.1	7950.8	7151.1	6443.3	5781.5	5322.0	5083.0	5018.6
15°	9913.2	9784.5	9058.4	8198.9	7229.2	6186.0	5179.5	4384.4	3901.8	3704.2	3704.2
17.5°	9917.8	9609.9	8787.2	7684.2	6379.0	4968.1	3860.5	3207.9	2941.3	2913.7	2936.7
20°	9825.9	9481.2	8502.3	7077.6	5312.8	3731.8	2803.4	2536.9	2536.9	2573.7	2587.4
22.5°	9743.1	9288.1	8051.9	6328.4	4228.2	2702.3	2279.5	2201.4	2288.7	2353.1	2380.6
25°	9628.2	9127.3	7592.3	5551.7	3217.1	2178.4	1980.8	1999.2	2081.9	2196.8	2187.6
27.5°	9462.8	8846.9	7045.4	4651.0	2394.4	1879.7	1829.1	1838.3	1925.6	1976.2	1967.0
30°	9274.4	8562.0	6539.8	3754.8	1898.1	1723.4	1718.8	1741.8	1755.6	1783.2	1778.6
32.5°	9035.4	8185.1	6002.1	2918.3	1709.6	1636.1	1617.7	1603.9	1617.7	1613.1	1599.3
35°	8865.3	7982.9	5455.2	2224.4	1603.9	1558.0	1544.2	1521.2	1502.8	1475.3	1470.7
37.5°	8819.4	7780.7	4880.8	1815.3	1521.2	1498.2	1452.3	1410.9	1387.9	1374.1	1365.0
40°	8791.8	7647.4	4320.1	1594.7	1452.3	1429.3	1374.1	1319.0	1296.0	1282.2	1286.8
42.5°	8888.3	7573.9	3750.2	1484.4	1392.5	1351.2	1291.4	1227.1	1222.5	1213.3	1227.1
45°	9228.4	7665.8	3221.7	1406.3	1332.8	1263.8	1185.7	1153.6	1149.0	1139.8	1149.0
47.5°	10000.5	7895.6	2771.3	1355.8	1268.4	1208.7	1126.0	1080.0	1075.4	1070.8	1070.8
50°	11066.7	8603.4	2394.4	1296.0	1227.1	1144.4	1066.2	1015.7	1006.5	988.1	988.1
52.5°	12739.6	9793.7	2169.2	1263.8	1153.6	1084.6	1001.9	946.7	923.8	905.4	905.4
55°	14623.9	11268.9	2127.9	1208.7	1075.4	1011.1	937.5	882.4	859.4	836.4	827.2
57.5°	16770.1	13222.2	2422.0	1171.9	1020.3	937.5	854.8	804.3	785.9	762.9	753.7
60°	18769.3	15170.8	3336.6	1116.8	969.7	868.6	785.9	735.3	712.4	689.4	689.4
62.5°	21081.0	17583.6	4885.4	1116.8	923.8	795.1	712.4	675.6	661.8	638.8	634.2
65°	23815.5	20079.1	6015.9	1185.7	910.0	730.7	643.4	606.6	592.9	579.1	574.5
67.5°	25897.4	21513.0	5174.9	1369.6	969.7	675.6	574.5	551.5	542.3	528.5	519.3
70°	26118.0	20639.8	3120.6	1479.9	1029.5	620.4	514.7	491.8	491.8	478.0	468.8
72.5°	24137.2	18314.3	2100.3	1319.0	933.0	556.1	455.0	436.6	427.4	418.2	413.6
75°	20198.6	15533.9	1659.1	1052.4	716.9	459.6	395.2	376.9	363.1	358.5	349.3
77.5°	13566.9	10097.0	1227.1	822.7	528.5	372.3	330.9	312.5	298.7	294.1	280.3
80°	5211.7	3846.7	790.5	597.5	372.3	294.1	262.0	243.6	234.4	220.6	211.4
82.5°	1535.0	1245.5	441.2	367.7	239.0	202.2	188.4	174.6	160.9	147.1	142.5
85°	634.2	569.9	271.2	193.0	147.1	119.5	110.3	96.5	82.7	73.5	64.3
87.5°	294.1	243.6	124.1	73.5	50.6	27.6	13.8	4.6	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)