

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: P481060

Luminaire Tested: **IFLD-S-SA6D-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481060
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

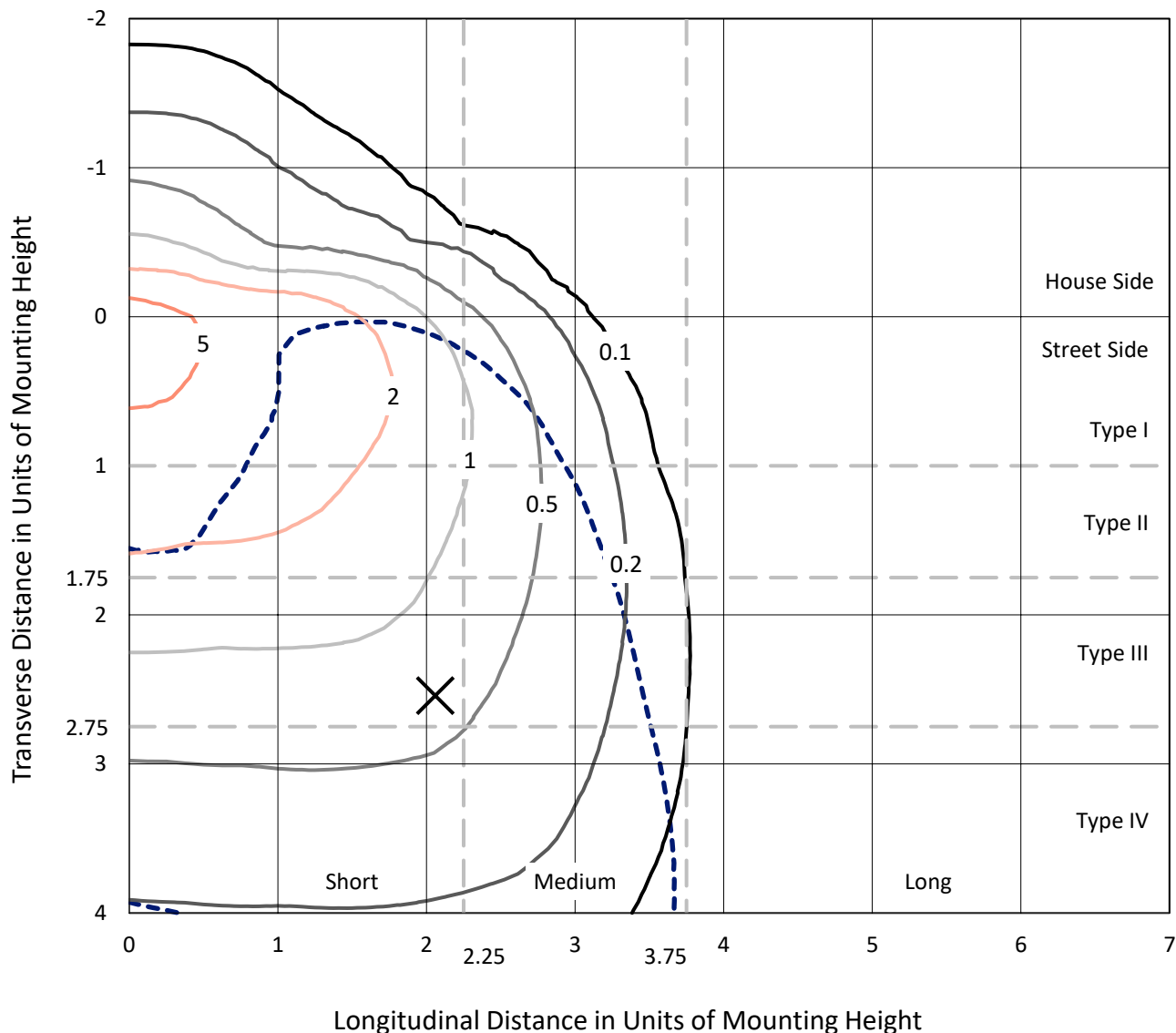
Lumens per Lamp: N/A
Luminaire Lumens: 35141.8 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P481060
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

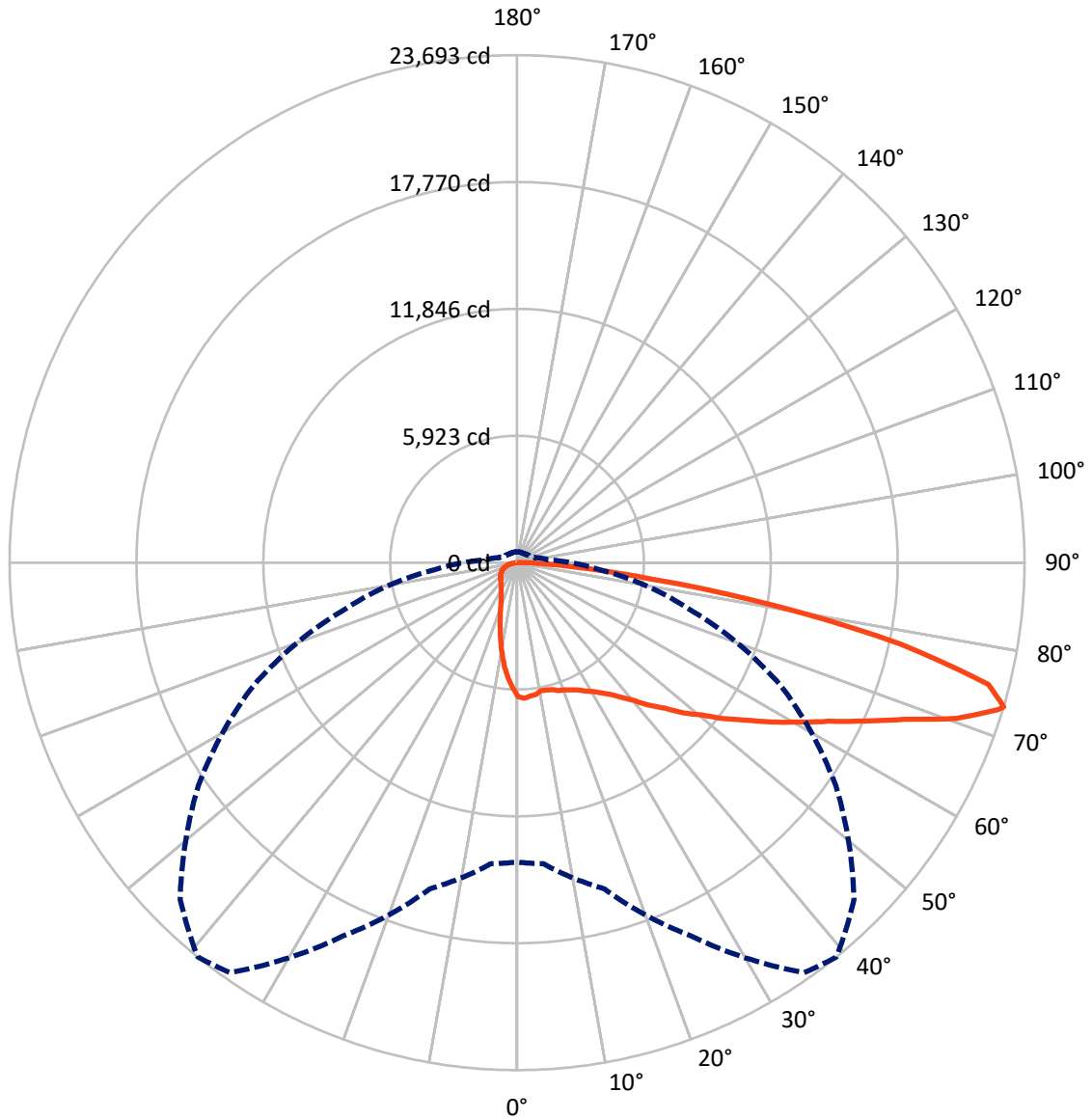
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

REPORT NUMBER: P481060
CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P481060
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4940.0	0.0	4940.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	30201.9	0.0	30201.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	35141.8	0.0	35141.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.0	1.5
10°-20°	1380.4	3.9
20°-30°	2109.5	6.0
30°-40°	3075.7	8.8
40°-50°	4647.7	13.2
50°-60°	6730.1	19.2
60°-70°	8550.9	24.3
70°-80°	6931.8	19.7
80°-90°	1172.8	3.3
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°	35141.8	100.0
0°-180°	35141.8	100.0

Coefficient of Utilization



REPORT NUMBER: P481060

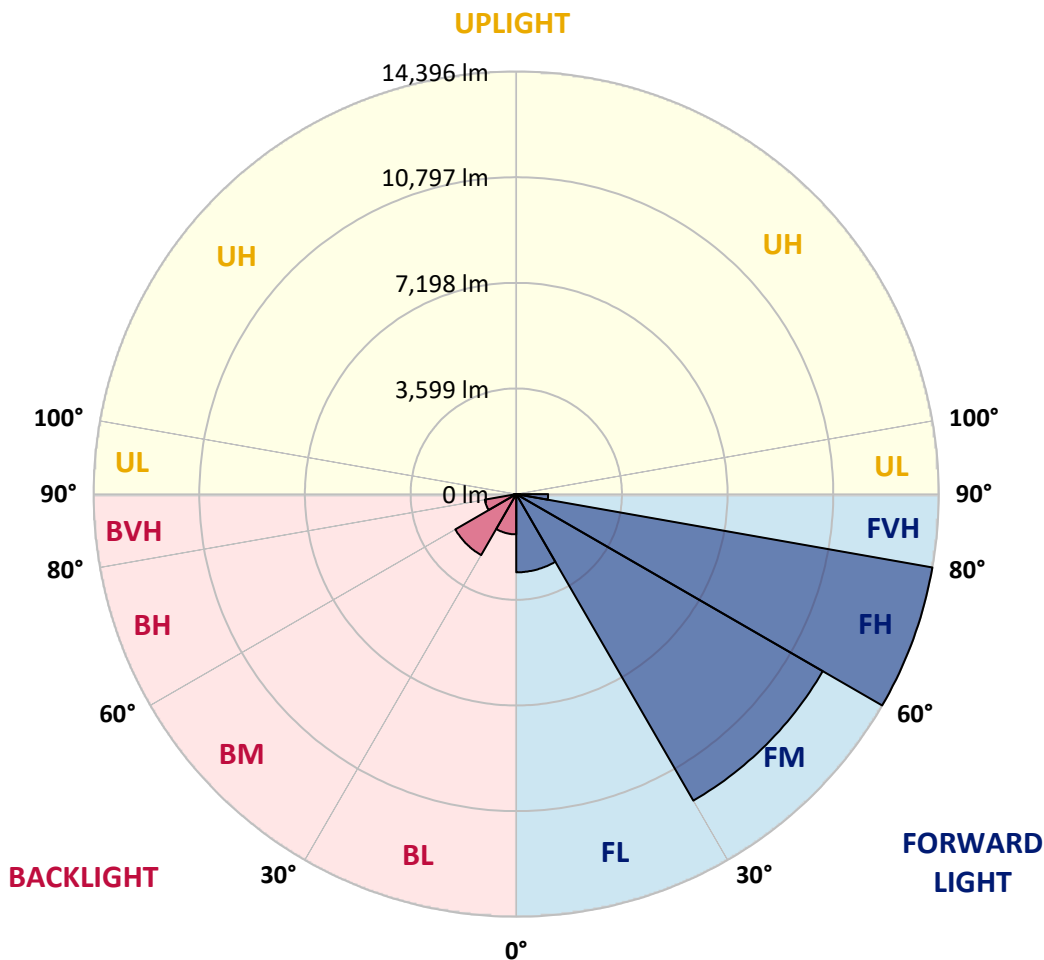
CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.0	7.6			
FM (30°-60°)	12055.9	34.3			
FH (60°-80°)	14396.2	41.0			G5
FVH (80°-90°)	1086.8	3.1			G5
BL (0°-30°)	1370.0	3.9	B3/2500		
BM (30°-60°)	2397.5	6.8	B2/2500		
BH (60°-80°)	1086.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	86.0	0.2			G1/100
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: P481060
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5
2.5°	6404.9	6338.0	6349.8	6326.2	6349.8	6342.0	6330.2	6271.2	6330.2	6271.2	6255.5
5°	6318.4	6318.4	6357.7	6298.7	6306.6	6267.3	6306.6	6263.3	6224.0	6125.7	6098.2
7.5°	6290.8	6286.9	6290.8	6208.3	6247.6	6224.0	6184.7	6137.5	6058.9	5996.0	5905.5
10°	6102.1	6141.4	6098.2	6121.8	6153.2	6082.5	6078.5	6066.7	6031.3	5948.8	5893.7
12.5°	5999.9	6066.7	6090.3	6070.7	6098.2	6106.1	6082.5	6066.7	6023.5	5968.4	5811.2
15°	6043.1	5964.5	6031.3	6161.1	6133.6	6153.2	6157.2	6141.4	6121.8	6019.6	5917.3
17.5°	6054.9	6007.8	6149.3	6176.8	6212.2	6283.0	6235.8	6231.9	6157.2	6086.4	5937.0
20°	6082.5	6062.8	6176.8	6322.3	6326.2	6338.0	6361.6	6302.6	6263.3	6141.4	5913.4
22.5°	6184.7	6251.5	6357.7	6420.6	6456.0	6463.8	6463.8	6345.9	6302.6	6204.3	6023.5
25°	6491.4	6420.6	6570.0	6644.7	6593.6	6581.8	6554.3	6448.1	6400.9	6314.4	6074.6
27.5°	6715.5	6711.5	6798.0	6900.3	6762.7	6790.2	6691.9	6660.4	6554.3	6507.1	6165.0
30°	7022.2	7108.7	7104.7	7136.2	6955.3	6986.8	6861.0	6802.0	6743.0	6770.5	6432.4
32.5°	7415.3	7383.9	7435.0	7411.4	7230.5	7258.1	7108.7	7018.2	7037.9	7120.5	6798.0
35°	7667.0	7635.5	7655.2	7655.2	7600.1	7568.7	7505.8	7387.8	7482.2	7635.5	7207.0
37.5°	7938.3	7977.6	8091.6	8068.0	7997.2	7997.2	7989.4	7906.8	8028.7	8406.1	7859.6
40°	8178.1	8284.3	8355.0	8402.2	8484.8	8484.8	8551.6	8504.4	8724.6	9330.1	8657.8
42.5°	8429.7	8433.7	8819.0	8854.4	9039.2	9117.8	9168.9	9208.2	9621.1	10297.3	9511.0
45°	8752.1	8771.8	9109.9	9381.2	9668.2	9695.8	9888.4	10018.2	10525.4	11355.0	10438.9
47.5°	9176.8	9153.2	9514.9	9947.4	10305.2	10493.9	10725.9	10867.4	11492.6	12503.1	11453.3
50°	9735.1	9664.3	9872.7	10552.9	10973.6	11182.0	11594.8	11830.7	12562.0	13600.0	12149.2
52.5°	10415.3	10297.3	10462.5	11205.6	11677.4	12098.1	12491.3	12754.7	13517.5	14449.3	12664.3
55°	11134.8	10891.0	10938.2	11897.6	12577.8	12974.9	13513.5	13788.7	14567.2	15212.1	13179.3
57.5°	11846.4	11693.1	11598.7	12562.0	13651.1	14032.5	14527.9	14885.7	15546.3	15888.3	13615.8
60°	12444.1	12404.8	12251.4	13592.2	14787.4	15113.8	15632.8	15852.9	16352.3	16513.5	13623.6
62.5°	12935.6	12801.9	13045.6	14421.8	15943.4	16313.0	16883.1	16902.7	17256.6	16902.7	13222.6
65°	13320.9	13328.7	13718.0	15424.4	17280.2	17826.7	18286.7	18235.6	18007.5	16670.7	12275.0
67.5°	13670.8	13820.2	14390.3	16525.3	18998.4	19513.4	20024.6	19348.3	18212.0	15585.6	10423.1
70°	13946.0	14095.4	15298.6	17866.0	21023.2	21778.1	21892.1	19788.6	17272.3	13202.9	7863.6
72.5°	13914.6	14185.9	15813.6	18935.4	22820.0	23472.7	22552.7	18550.1	14390.3	9204.3	4588.4
73°	13981.4	14115.1	15770.4	19234.3	23366.6	23692.9	22246.0	18160.9	13572.5	8256.7	3880.7
75°	12691.8	13143.9	14987.9	18746.7	22780.7	22721.8	20484.6	15133.4	9648.6	4336.8	1879.4
77.5°	9389.1	9676.1	11811.1	15416.5	18699.5	18322.1	15451.9	9672.2	4580.5	1608.1	1014.4
80°	4588.4	4812.5	6259.4	8901.5	12227.8	12259.3	9589.6	5032.7	1962.0	908.2	692.0
82.5°	2292.2	2425.9	3007.8	3912.1	6015.6	6302.6	4863.6	2862.3	1214.9	515.1	393.2
85°	1498.0	1592.4	1851.9	1914.8	2551.7	2693.3	2264.7	2233.3	790.3	279.2	318.5
87.5°	994.7	1010.5	1136.3	967.2	1022.3	982.9	1093.0	1407.6	232.0	118.0	86.5
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: P481060
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5	6255.5
2.5°	6235.8	6180.8	6121.8	6039.2	5980.2	5889.8	5807.2	5771.9	5764.0	5767.9	5728.6
5°	6074.6	5996.0	5878.0	5708.9	5610.6	5461.2	5335.4	5268.6	5197.8	5209.6	5178.2
7.5°	5850.5	5764.0	5583.1	5386.5	5142.8	4930.5	4812.5	4647.4	4553.0	4482.2	4521.5
10°	5779.7	5630.3	5359.0	5087.7	4710.3	4431.1	4159.8	3971.1	3841.3	3715.5	3770.6
12.5°	5744.3	5594.9	5217.5	4816.4	4328.9	3904.3	3522.9	3290.9	3106.1	2996.0	3039.3
15°	5712.9	5528.1	5083.8	4517.6	3971.1	3412.8	2984.2	2677.5	2500.6	2394.5	2406.2
17.5°	5756.1	5492.7	4887.2	4226.7	3577.9	2980.3	2504.5	2186.1	2005.2	1938.4	1922.6
20°	5712.9	5453.4	4694.5	3935.7	3184.7	2567.5	2111.4	1847.9	1722.1	1667.1	1655.3
22.5°	5728.6	5359.0	4494.0	3613.3	2819.1	2221.5	1847.9	1647.4	1549.1	1521.6	1529.5
25°	5803.3	5304.0	4293.5	3259.4	2457.4	1965.9	1678.9	1525.5	1454.8	1427.2	1435.1
27.5°	5858.4	5351.2	4112.6	2925.2	2150.7	1737.8	1537.3	1435.1	1387.9	1368.3	1364.3
30°	5996.0	5378.7	3935.7	2626.4	1899.0	1588.4	1439.0	1356.5	1325.0	1313.2	1309.3
32.5°	6200.4	5429.8	3731.3	2351.2	1714.3	1446.9	1360.4	1289.6	1281.8	1270.0	1273.9
35°	6534.6	5606.7	3503.2	2115.3	1537.3	1352.5	1277.8	1230.6	1230.6	1230.6	1242.4
37.5°	7014.3	5854.4	3298.8	1891.2	1423.3	1270.0	1207.1	1191.3	1183.5	1195.3	1203.1
40°	7631.6	6153.2	3133.6	1714.3	1325.0	1214.9	1159.9	1152.0	1148.1	1144.1	1152.0
42.5°	8307.8	6534.6	2992.1	1576.6	1254.2	1155.9	1116.6	1108.8	1093.0	1100.9	1112.7
45°	8980.2	7006.4	2866.3	1466.6	1207.1	1124.5	1069.4	1065.5	1057.6	1053.7	1073.4
47.5°	9727.2	7470.4	2826.9	1399.7	1171.7	1077.3	1038.0	1034.1	1010.5	1006.5	1022.3
50°	10309.1	7812.4	2870.2	1368.3	1120.6	1041.9	1014.4	994.7	975.1	955.4	955.4
52.5°	10710.2	8048.4	2901.7	1344.7	1093.0	994.7	959.4	951.5	931.8	912.2	904.3
55°	11071.9	8189.9	2909.5	1348.6	1065.5	939.7	916.1	912.2	900.4	868.9	861.1
57.5°	11193.8	8130.9	2752.2	1313.2	1049.8	904.3	872.9	880.7	865.0	837.5	833.5
60°	11182.0	7722.0	2394.5	1266.0	1014.4	865.0	825.7	849.3	849.3	817.8	813.9
62.5°	10501.8	6778.4	1958.0	1175.6	975.1	825.7	782.4	817.8	829.6	809.9	806.0
65°	9090.3	5520.2	1635.6	1085.2	916.1	782.4	739.2	778.5	798.2	790.3	786.4
67.5°	7521.5	4222.7	1360.4	967.2	841.4	723.4	688.1	715.6	727.4	731.3	735.2
70°	5315.8	2811.2	1136.3	837.5	739.2	660.5	621.2	625.2	621.2	633.0	633.0
72.5°	2889.9	1619.9	924.0	711.7	636.9	574.0	546.5	526.9	526.9	522.9	522.9
73°	2473.1	1454.8	880.7	692.0	609.4	558.3	526.9	511.1	511.1	507.2	503.3
75°	1387.9	1065.5	754.9	593.7	526.9	487.5	463.9	440.4	436.4	436.4	436.4
77.5°	912.2	829.6	601.6	475.7	424.6	389.2	381.4	357.8	357.8	357.8	353.9
80°	684.1	652.7	463.9	361.7	326.3	298.8	291.0	275.2	271.3	255.6	259.5
82.5°	456.1	515.1	338.1	255.6	220.2	204.5	204.5	200.5	188.7	169.1	169.1
85°	361.7	420.7	243.8	157.3	129.7	110.1	114.0	110.1	106.2	86.5	82.6
87.5°	66.8	169.1	70.8	43.2	31.5	19.7	19.7	11.8	7.9	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)