

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: P480759

Luminaire Tested: **IFLD-L-SA7E-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480759
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

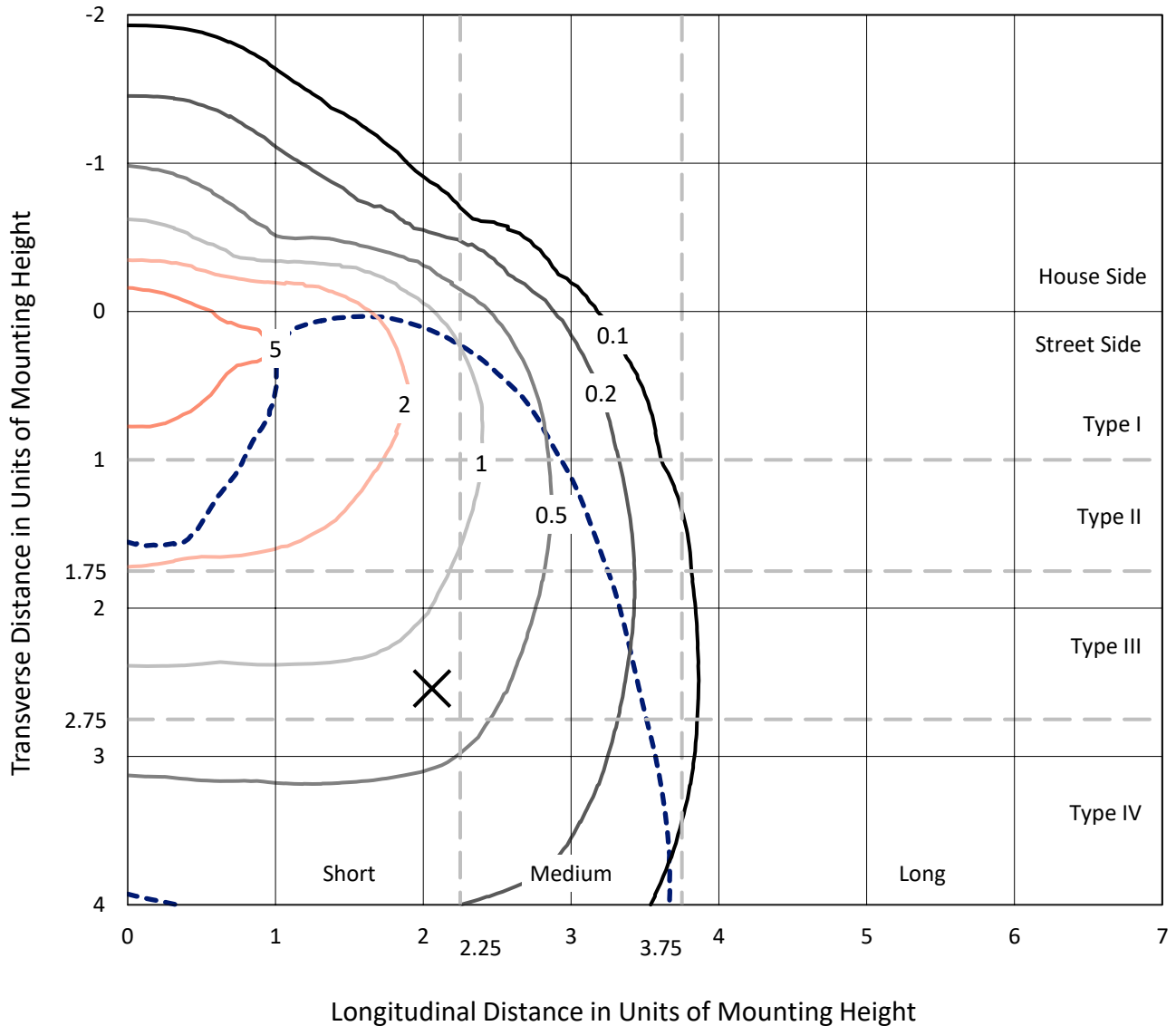
Lumens per Lamp: N/A
Luminaire Lumens: 40221.5 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

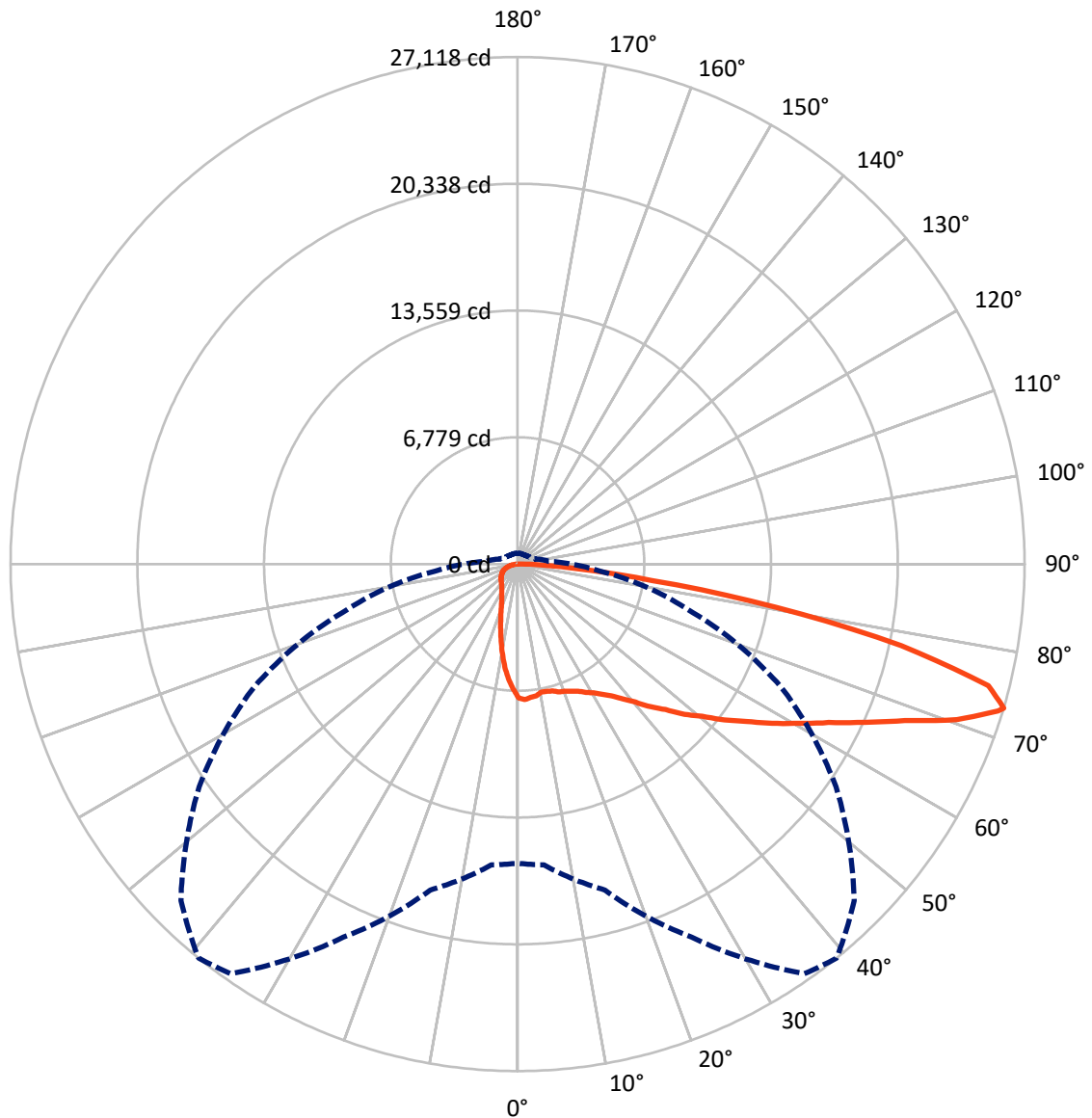
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5654.0	0.0	5654.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	34567.5	0.0	34567.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	40221.5	0.0	40221.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	1.5
10°-20°	1580.0	3.9
20°-30°	2414.4	6.0
30°-40°	3520.2	8.8
40°-50°	5319.5	13.2
50°-60°	7702.9	19.2
60°-70°	9786.9	24.3
70°-80°	7933.8	19.7
80°-90°	1342.4	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°	40221.5	100.0
0°-180°	40221.5	100.0

Coefficient of Utilization



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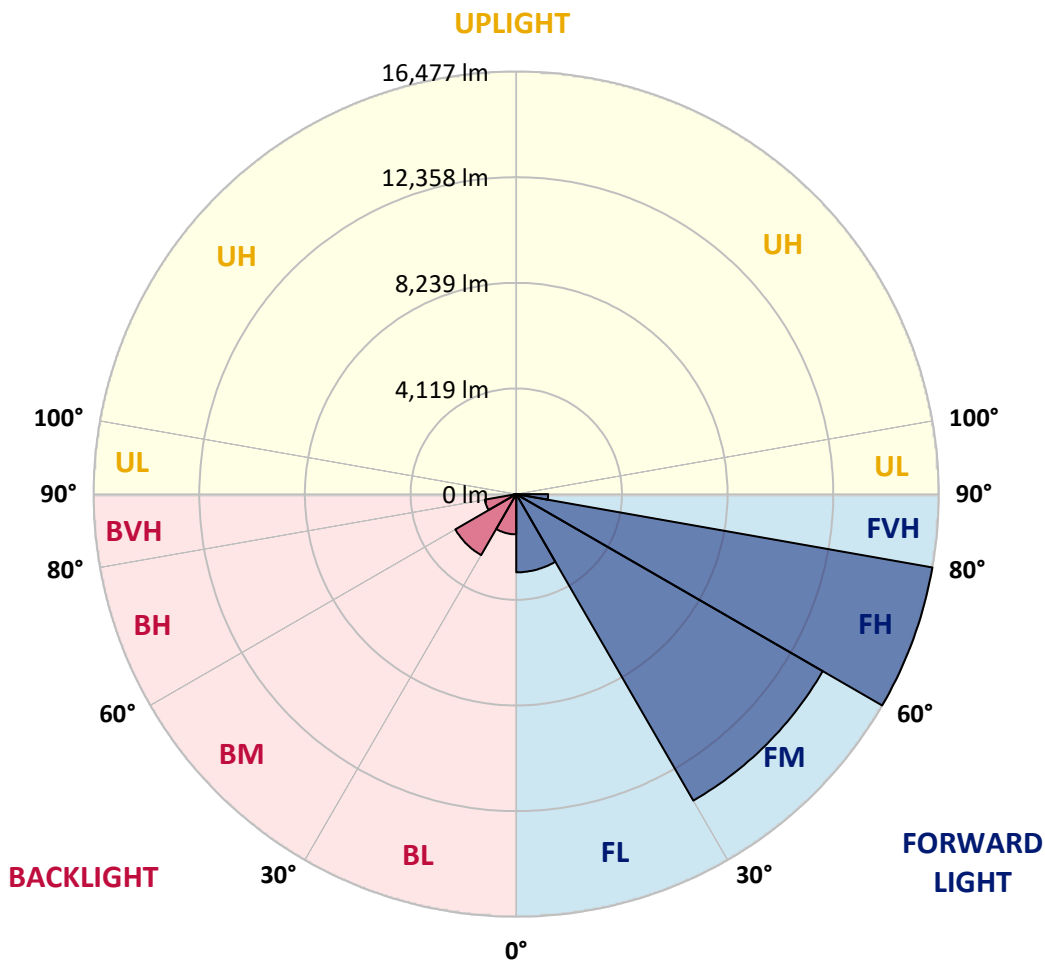
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3047.9	7.6			
FM (30°-60°)	13798.6	34.3			
FH (60°-80°)	16477.2	41.0			G5
FVH (80°-90°)	1243.9	3.1			G5
BL (0°-30°)	1568.0	3.9	B3/2500		
BM (30°-60°)	2744.0	6.8	B3/5000		
BH (60°-80°)	1243.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	98.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7
2.5°	7330.7	7254.2	7267.7	7240.7	7267.7	7258.7	7245.2	7177.7	7245.2	7177.7	7159.7
5°	7231.7	7231.7	7276.7	7209.2	7218.2	7173.2	7218.2	7168.7	7123.7	7011.2	6979.7
7.5°	7200.2	7195.7	7200.2	7105.7	7150.7	7123.7	7078.7	7024.7	6934.7	6862.7	6759.2
10°	6984.2	7029.2	6979.7	7006.7	7042.7	6961.7	6957.2	6943.7	6903.2	6808.7	6745.7
12.5°	6867.2	6943.7	6970.7	6948.2	6979.7	6988.7	6961.7	6943.7	6894.2	6831.2	6651.2
15°	6916.7	6826.7	6903.2	7051.7	7020.2	7042.7	7047.2	7029.2	7006.7	6889.7	6772.7
17.5°	6930.2	6876.2	7038.2	7069.7	7110.2	7191.2	7137.2	7132.7	7047.2	6966.2	6795.2
20°	6961.7	6939.2	7069.7	7236.2	7240.7	7254.2	7281.2	7213.7	7168.7	7029.2	6768.2
22.5°	7078.7	7155.2	7276.7	7348.7	7389.2	7398.2	7398.2	7263.2	7213.7	7101.2	6894.2
25°	7429.7	7348.7	7519.7	7605.2	7546.7	7533.2	7501.7	7380.2	7326.2	7227.2	6952.7
27.5°	7686.2	7681.7	7780.7	7897.7	7740.2	7771.7	7659.2	7623.2	7501.7	7447.7	7056.2
30°	8037.2	8136.2	8131.7	8167.7	7960.7	7996.7	7852.7	7785.2	7717.7	7749.2	7362.2
32.5°	8487.2	8451.2	8509.7	8482.7	8275.7	8307.2	8136.2	8032.7	8055.2	8149.7	7780.7
35°	8775.2	8739.2	8761.7	8761.7	8698.7	8662.7	8590.7	8455.7	8563.7	8739.2	8248.7
37.5°	9085.7	9130.7	9261.2	9234.2	9153.2	9153.2	9144.2	9049.7	9189.2	9621.2	8995.7
40°	9360.2	9481.7	9562.7	9616.7	9711.2	9711.2	9787.7	9733.7	9985.8	10678.8	9909.3
42.5°	9648.2	9652.7	10093.8	10134.3	10345.8	10435.8	10494.3	10539.3	11011.8	11785.8	10885.8
45°	10017.3	10039.8	10426.8	10737.3	11065.8	11097.3	11317.8	11466.3	12046.8	12996.3	11947.8
47.5°	10503.3	10476.3	10890.3	11385.3	11794.8	12010.8	12276.3	12438.3	13153.8	14310.4	13108.8
50°	11142.3	11061.3	11299.8	12078.3	12559.8	12798.3	13270.8	13540.8	14377.9	15565.9	13905.4
52.5°	11920.8	11785.8	11974.8	12825.3	13365.3	13846.9	14296.9	14598.4	15471.4	16537.9	14494.9
55°	12744.3	12465.3	12519.3	13617.3	14395.9	14850.4	15466.9	15781.9	16672.9	17410.9	15084.4
57.5°	13558.8	13383.3	13275.3	14377.9	15624.4	16060.9	16627.9	17037.4	17793.5	18185.0	15583.9
60°	14242.9	14197.9	14022.4	15556.9	16924.9	17298.4	17892.5	18144.5	18716.0	18900.5	15592.9
62.5°	14805.4	14652.4	14931.4	16506.4	18248.0	18671.0	19323.5	19346.0	19751.0	19346.0	15133.9
65°	15246.4	15255.4	15700.9	17653.9	19778.0	20403.5	20930.0	20871.5	20610.5	19080.5	14049.4
67.5°	15646.9	15817.9	16470.4	18914.0	21744.6	22334.1	22919.1	22145.1	20844.5	17838.5	11929.8
70°	15961.9	16132.9	17509.9	20448.5	24062.1	24926.1	25056.6	22649.1	19769.0	15111.4	9000.2
72.5°	15925.9	16236.4	18099.5	21672.6	26118.7	26865.7	25812.7	21231.5	16470.4	10534.8	5251.6
73°	16002.4	16155.4	18050.0	22014.6	26744.2	27117.7	25461.6	20786.0	15534.4	9450.2	4441.6
75°	14526.4	15043.9	17154.4	21456.5	26073.7	26006.2	23445.6	17320.9	11043.3	4963.6	2151.1
77.5°	10746.3	11074.8	13518.3	17644.9	21402.5	20970.5	17685.5	11070.3	5242.6	1840.5	1161.0
80°	5251.6	5508.1	7164.2	10188.3	13995.4	14031.4	10975.8	5760.1	2245.6	1039.5	792.0
82.5°	2623.6	2776.6	3442.6	4477.6	6885.2	7213.7	5566.6	3276.1	1390.5	589.5	450.0
85°	1714.5	1822.5	2119.6	2191.6	2920.6	3082.6	2592.1	2556.1	904.5	319.5	364.5
87.5°	1138.5	1156.5	1300.5	1107.0	1170.0	1125.0	1251.0	1611.0	265.5	135.0	99.0
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°	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7	7159.7
2.5°	7137.2	7074.2	7006.7	6912.2	6844.7	6741.2	6646.7	6606.2	6597.2	6601.7	6556.7
5°	6952.7	6862.7	6727.7	6534.2	6421.7	6250.7	6106.7	6030.2	5949.2	5962.7	5926.7
7.5°	6696.2	6597.2	6390.2	6165.2	5886.1	5643.1	5508.1	5319.1	5211.1	5130.1	5175.1
10°	6615.2	6444.2	6133.7	5823.1	5391.1	5071.6	4761.1	4545.1	4396.6	4252.6	4315.6
12.5°	6574.7	6403.7	5971.7	5512.6	4954.6	4468.6	4032.1	3766.6	3555.1	3429.1	3478.6
15°	6538.7	6327.2	5818.6	5170.6	4545.1	3906.1	3415.6	3064.6	2862.1	2740.6	2754.1
17.5°	6588.2	6286.7	5593.6	4837.6	4095.1	3411.1	2866.6	2502.1	2295.1	2218.6	2200.6
20°	6538.7	6241.7	5373.1	4504.6	3645.1	2938.6	2416.6	2115.1	1971.1	1908.0	1894.5
22.5°	6556.7	6133.7	5143.6	4135.6	3226.6	2542.6	2115.1	1885.5	1773.0	1741.5	1750.5
25°	6642.2	6070.7	4914.1	3730.6	2812.6	2250.1	1921.5	1746.0	1665.0	1633.5	1642.5
27.5°	6705.2	6124.7	4707.1	3348.1	2461.6	1989.1	1759.5	1642.5	1588.5	1566.0	1561.5
30°	6862.7	6156.2	4504.6	3006.1	2173.6	1818.0	1647.0	1552.5	1516.5	1503.0	1498.5
32.5°	7096.7	6214.7	4270.6	2691.1	1962.0	1656.0	1557.0	1476.0	1467.0	1453.5	1458.0
35°	7479.2	6417.2	4009.6	2421.1	1759.5	1548.0	1462.5	1408.5	1408.5	1408.5	1422.0
37.5°	8028.2	6700.7	3775.6	2164.6	1629.0	1453.5	1381.5	1363.5	1354.5	1368.0	1377.0
40°	8734.7	7042.7	3586.6	1962.0	1516.5	1390.5	1327.5	1318.5	1314.0	1309.5	1318.5
42.5°	9508.7	7479.2	3424.6	1804.5	1435.5	1323.0	1278.0	1269.0	1251.0	1260.0	1273.5
45°	10278.3	8019.2	3280.6	1678.5	1381.5	1287.0	1224.0	1219.5	1210.5	1206.0	1228.5
47.5°	11133.3	8550.2	3235.6	1602.0	1341.0	1233.0	1188.0	1183.5	1156.5	1152.0	1170.0
50°	11799.3	8941.7	3285.1	1566.0	1282.5	1192.5	1161.0	1138.5	1116.0	1093.5	1093.5
52.5°	12258.3	9211.7	3321.1	1539.0	1251.0	1138.5	1098.0	1089.0	1066.5	1044.0	1035.0
55°	12672.3	9373.7	3330.1	1543.5	1219.5	1075.5	1048.5	1044.0	1030.5	994.5	985.5
57.5°	12811.8	9306.2	3150.1	1503.0	1201.5	1035.0	999.0	1008.0	990.0	958.5	954.0
60°	12798.3	8838.2	2740.6	1449.0	1161.0	990.0	945.0	972.0	972.0	936.0	931.5
62.5°	12019.8	7758.2	2241.1	1345.5	1116.0	945.0	895.5	936.0	949.5	927.0	922.5
65°	10404.3	6318.2	1872.0	1242.0	1048.5	895.5	846.0	891.0	913.5	904.5	900.0
67.5°	8608.7	4833.1	1557.0	1107.0	963.0	828.0	787.5	819.0	832.5	837.0	841.5
70°	6084.2	3217.6	1300.5	958.5	846.0	756.0	711.0	715.5	711.0	724.5	724.5
72.5°	3307.6	1854.0	1057.5	814.5	729.0	657.0	625.5	603.0	603.0	598.5	598.5
73°	2830.6	1665.0	1008.0	792.0	697.5	639.0	603.0	585.0	585.0	580.5	576.0
75°	1588.5	1219.5	864.0	679.5	603.0	558.0	531.0	504.0	499.5	499.5	499.5
77.5°	1044.0	949.5	688.5	544.5	486.0	445.5	436.5	409.5	409.5	409.5	405.0
80°	783.0	747.0	531.0	414.0	373.5	342.0	333.0	315.0	310.5	292.5	297.0
82.5°	522.0	589.5	387.0	292.5	252.0	234.0	234.0	229.5	216.0	193.5	193.5
85°	414.0	481.5	279.0	180.0	148.5	126.0	130.5	126.0	121.5	99.0	94.5
87.5°	76.5	193.5	81.0	49.5	36.0	22.5	22.5	13.5	9.0	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)