

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: P480680

Luminaire Tested: **IFLD-L-SA7D-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480680
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

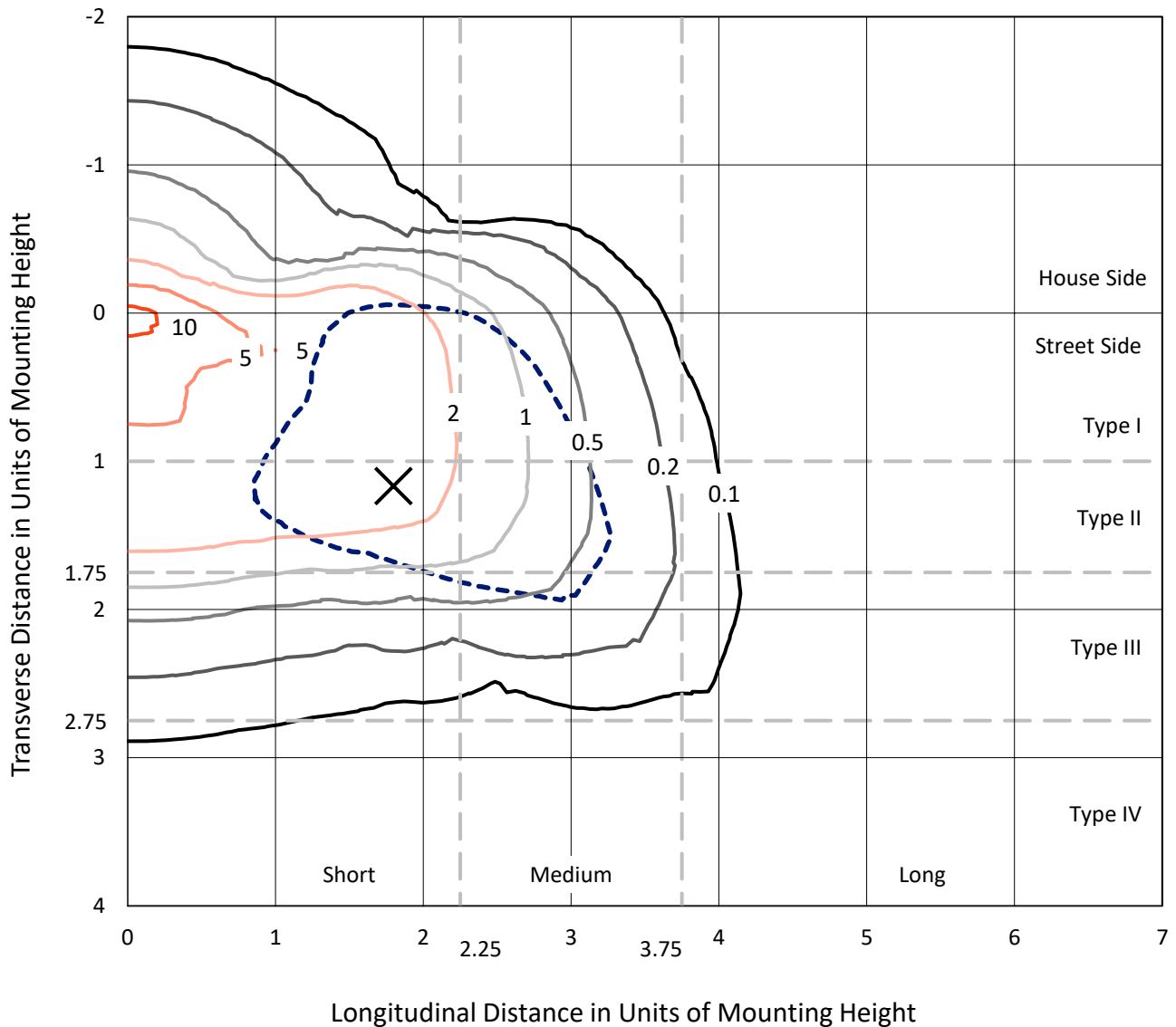
Lumens per Lamp: N/A
Luminaire Lumens: 38245.3 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

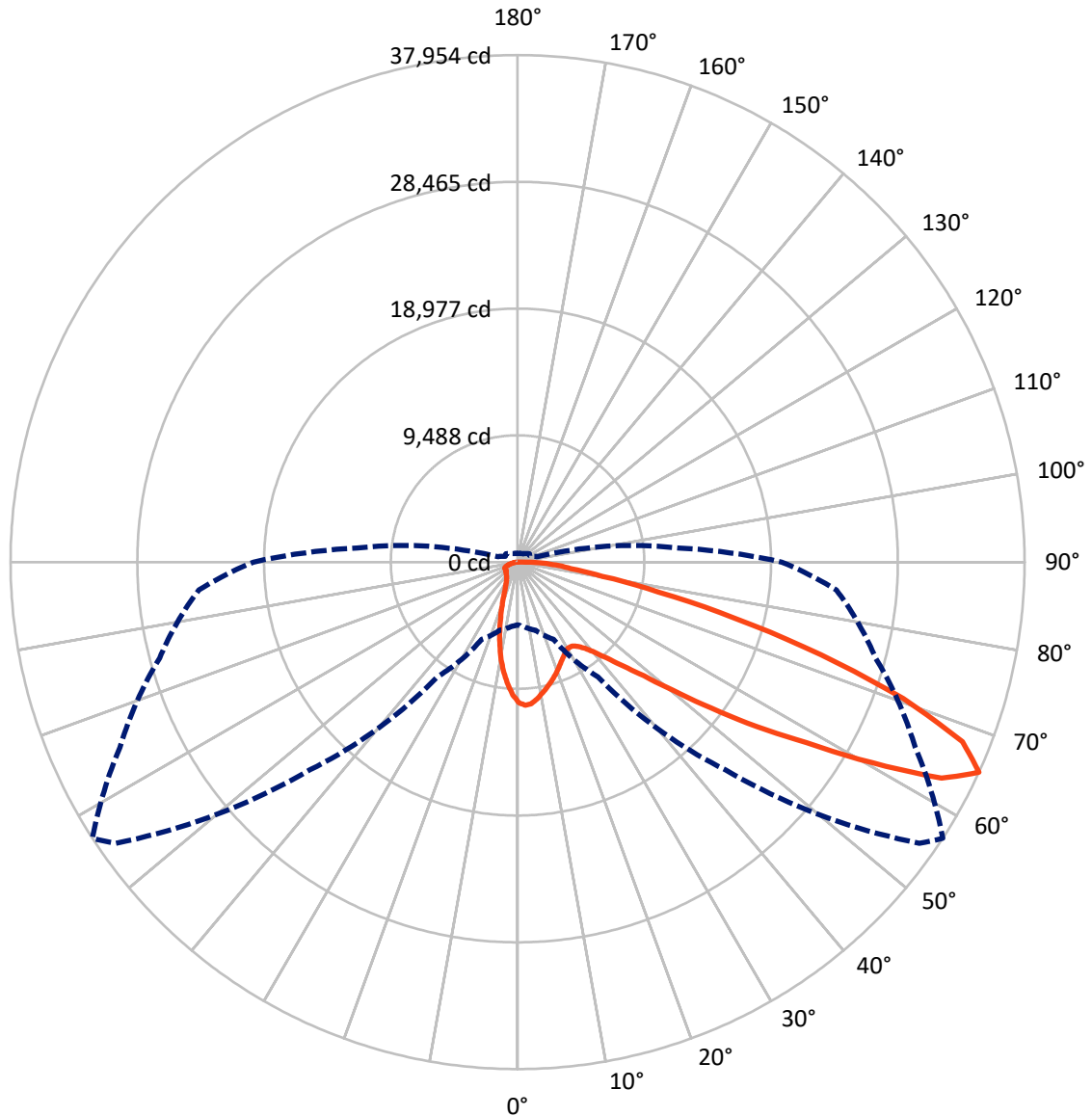
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5865.3	0.0	5865.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	32380.1	0.0	32380.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	38245.3	0.0	38245.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.7	2.3
10°-20°	1895.4	5.0
20°-30°	2450.6	6.4
30°-40°	3297.7	8.6
40°-50°	5258.4	13.7
50°-60°	9287.6	24.3
60°-70°	10217.6	26.7
70°-80°	4274.2	11.2
80°-90°	683.1	1.8
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°	38245.3	100.0
0°-180°	38245.3	100.0

Coefficient of Utilization



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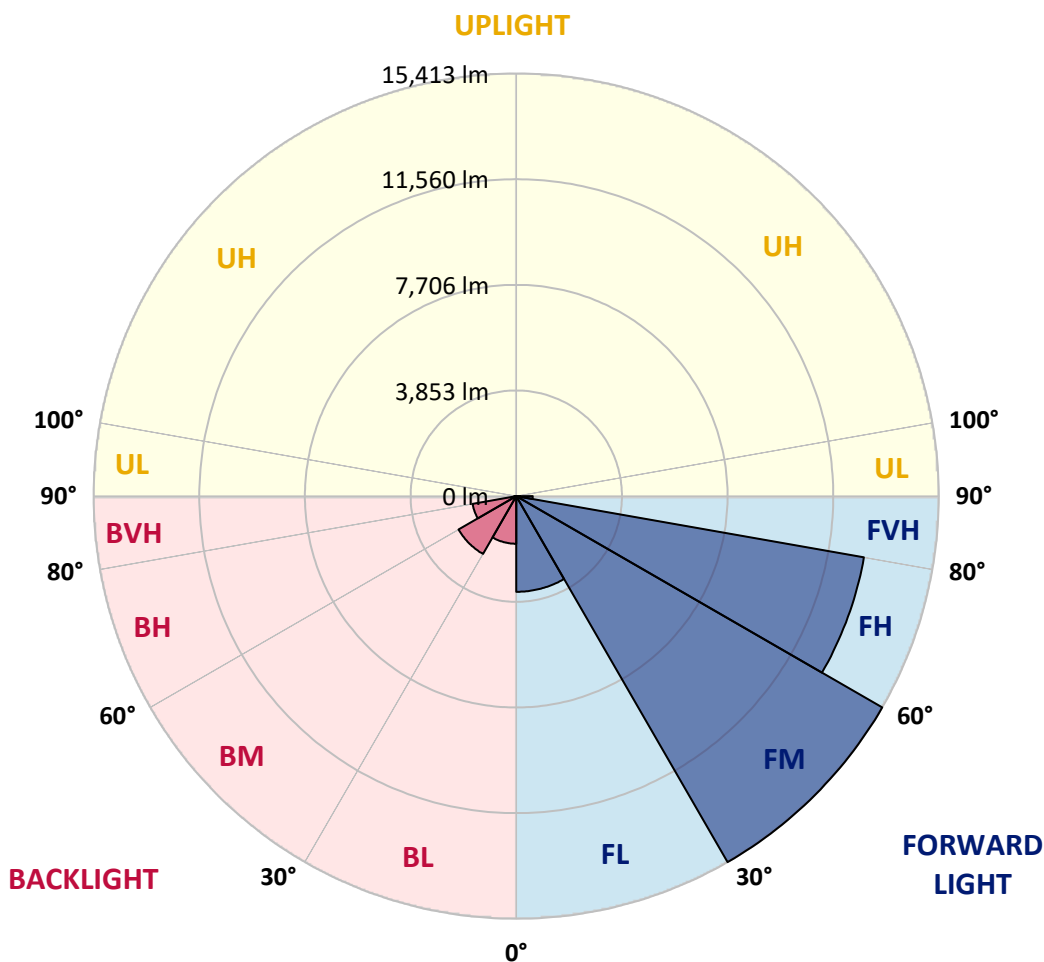
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3489.7	9.1			
FM (30°-60°)	15412.8	40.3			
FH (60°-80°)	12874.5	33.7			G5
FVH (80°-90°)	603.0	1.6			G4/750
BL (0°-30°)	1737.0	4.5	B3/2500		
BM (30°-60°)	2430.9	6.4	B2/2500		
BH (60°-80°)	1617.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	80.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9
2.5°	10800.9	10818.1	10818.1	10852.6	10736.4	10792.3	10783.7	10732.1	10749.3	10658.9	10568.6
5°	10495.4	10482.5	10551.4	10560.0	10650.3	10676.1	10697.7	10663.2	10671.8	10473.9	10387.8
7.5°	9712.2	9707.9	9824.1	9923.1	10112.4	10288.9	10405.0	10370.6	10418.0	10293.2	10090.9
10°	8782.8	8881.7	9002.2	9101.2	9449.7	9673.5	9974.7	10004.9	10185.6	10155.5	9789.7
12.5°	8085.6	8128.7	8219.0	8503.0	8821.5	9191.6	9621.9	9660.6	9837.0	9923.1	9604.7
15°	7513.3	7552.0	7668.2	7879.1	8236.3	8675.2	9221.7	9320.6	9673.5	9703.6	9363.7
17.5°	7095.9	7126.0	7203.5	7414.3	7707.0	8270.7	8787.1	8963.5	9428.2	9574.5	9114.1
20°	6932.4	6867.8	6910.9	7044.3	7336.9	7771.5	8438.5	8593.4	9187.3	9475.6	8877.4
22.5°	6859.2	6803.3	6829.1	6820.5	7052.9	7362.7	8064.1	8227.6	8959.2	9359.4	8666.6
25°	6915.2	6915.2	6889.4	6867.8	6893.7	7095.9	7659.6	7913.5	8653.7	9260.4	8451.4
27.5°	7216.4	7100.2	7113.1	7022.8	6996.9	6996.9	7478.9	7629.5	8554.7	9204.5	8275.0
30°	7410.0	7466.0	7470.3	7336.9	7203.5	6962.5	7311.1	7457.4	8472.9	9273.3	8171.7
32.5°	7904.9	7879.1	7805.9	7780.1	7582.2	7311.1	7392.8	7491.8	8425.6	9428.2	8201.8
35°	8399.8	8386.9	8391.2	8378.3	8171.7	7771.5	7612.3	7745.7	8511.7	9699.3	8305.1
37.5°	8911.8	8946.3	9092.6	9092.6	8873.1	8438.5	8227.6	8188.9	8825.8	10142.6	8550.4
40°	9423.9	9510.0	9695.0	9987.6	9677.8	9273.3	8933.4	8873.1	9204.5	10736.4	9139.9
42.5°	9914.5	10056.5	10422.3	10856.9	10753.6	10349.1	9897.3	9828.4	9983.3	11618.5	9961.8
45°	10542.7	10663.2	11239.9	11906.8	12048.9	11691.7	11162.4	11106.5	11097.9	12909.5	11093.6
47.5°	11498.0	11627.1	12203.8	12875.1	13314.0	13369.9	12776.1	12715.8	12509.3	14652.3	12750.3
50°	12694.3	12905.2	13391.4	14174.6	14811.5	15409.6	15241.8	15065.4	14660.9	16679.1	14850.2
52.5°	13567.9	13826.1	14484.4	15487.1	16610.2	17561.2	18163.6	18163.6	17234.2	18903.8	17376.2
55°	13800.2	13955.2	14785.7	16235.8	18159.3	20564.8	21825.6	21731.0	20298.0	21244.7	20315.2
57.5°	12875.1	13077.3	14084.2	15603.3	18972.6	23374.8	25461.8	25483.3	23645.9	23964.3	23215.6
60°	10327.6	10392.1	11579.8	13610.9	18189.5	25638.2	30427.7	30509.4	27454.2	26387.0	24691.5
62.5°	7138.9	7345.5	8240.6	10022.1	15069.7	25384.4	35217.1	35621.6	30505.1	27665.0	24923.9
65°	4699.1	4823.8	5301.5	6385.9	10491.1	22002.1	36706.0	37953.9	32837.4	27738.2	23951.4
67.5°	3408.1	3429.6	3571.6	4131.0	6304.1	15822.7	34162.8	35922.8	33711.0	27127.1	21670.7
70°	2754.0	2771.2	2822.9	3180.0	4070.8	9901.6	27863.0	30621.3	31090.3	24231.1	17453.6
72.5°	2237.6	2259.2	2323.7	2659.4	3356.5	5508.0	20375.5	23736.2	25289.7	17927.0	11601.3
75°	1760.0	1777.2	1932.1	2263.5	3154.2	3782.5	13516.2	16808.2	17019.0	10478.2	5430.6
77.5°	1204.9	1235.0	1424.3	1919.2	2969.2	3309.1	8425.6	10766.5	9660.6	4100.9	1867.6
80°	766.0	809.0	920.9	1454.5	2624.9	3158.5	5241.3	6428.9	4230.0	1402.8	899.4
82.5°	451.8	494.9	606.7	942.4	2061.2	2930.5	3692.1	4023.5	1983.8	718.6	542.2
85°	249.6	279.7	365.8	568.0	1209.2	2603.4	2956.3	2887.4	1136.0	383.0	339.9
87.5°	81.8	94.7	133.4	228.1	499.2	1226.4	1772.9	1665.3	589.5	176.4	133.4
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°	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9	10516.9
2.5°	10508.3	10495.4	10301.8	10155.5	9905.9	9699.3	9617.6	9505.7	9501.4	9419.6	9398.1
5°	10254.4	10121.0	9824.1	9540.1	9096.9	8800.0	8528.9	8339.5	8262.1	8094.2	8055.5
7.5°	9927.4	9751.0	9294.8	8761.2	8240.6	7775.8	7354.1	6932.4	6695.7	6614.0	6523.6
10°	9587.4	9277.6	8602.0	8003.9	7276.6	6562.3	5899.6	5305.8	4983.1	4755.0	4656.0
12.5°	9316.3	8903.2	8042.6	7147.6	6187.9	5232.6	4462.4	3838.4	3472.7	3300.5	3223.1
15°	9010.8	8464.3	7431.6	6299.8	5103.6	4019.2	3266.1	2775.5	2629.2	2547.5	2534.6
17.5°	8688.1	8055.5	6768.9	5465.0	4045.0	3025.1	2538.9	2340.9	2276.4	2241.9	2224.7
20°	8386.9	7689.8	6089.0	4535.5	3167.1	2427.0	2198.9	2095.6	2091.3	2108.5	2104.2
22.5°	7960.9	7212.1	5417.7	3674.9	2530.3	2112.9	1966.5	1940.7	1966.5	1988.1	1996.7
25°	7719.9	6820.5	4668.9	2917.5	2091.3	1876.2	1828.8	1820.2	1859.0	1884.8	1880.5
27.5°	7470.3	6416.0	3971.8	2336.6	1833.1	1708.4	1699.7	1708.4	1747.1	1785.8	1781.5
30°	7276.6	6093.3	3317.7	1953.6	1635.2	1587.9	1579.3	1587.9	1609.4	1613.7	1613.7
32.5°	7117.4	5710.3	2762.6	1695.4	1514.7	1476.0	1484.6	1480.3	1484.6	1488.9	1493.2
35°	7022.8	5482.2	2306.5	1536.2	1415.7	1385.6	1381.3	1368.4	1372.7	1377.0	1372.7
37.5°	7225.0	5370.3	1945.0	1424.3	1346.9	1321.1	1312.5	1303.9	1290.9	1290.9	1290.9
40°	7530.5	5310.1	1725.6	1351.2	1295.3	1265.1	1239.3	1230.7	1230.7	1235.0	1239.3
42.5°	8137.3	5409.1	1575.0	1295.3	1230.7	1196.3	1170.5	1174.8	1187.7	1200.6	1192.0
45°	9015.1	5710.3	1506.1	1252.2	1192.0	1144.6	1127.4	1123.1	1136.0	1157.6	1174.8
47.5°	10164.1	6179.3	1480.3	1213.5	1166.2	1101.6	1080.1	1093.0	1110.2	1140.3	1127.4
50°	12044.6	7233.6	1501.8	1179.1	1127.4	1080.1	1054.3	1041.4	1054.3	1075.8	1084.4
52.5°	14501.7	9148.5	1583.6	1161.9	1101.6	1062.9	1019.8	998.3	1011.2	1028.5	1028.5
55°	17440.7	11764.8	1811.6	1140.3	1058.6	1037.1	989.7	946.7	955.3	955.3	951.0
57.5°	20031.2	13740.0	2082.7	1110.2	1032.8	1002.6	942.4	890.8	882.1	886.5	890.8
60°	21193.1	14265.0	2211.8	1101.6	1032.8	959.6	877.8	826.2	813.3	804.7	804.7
62.5°	20990.8	13357.0	1949.3	1062.9	1058.6	925.2	817.6	761.7	744.4	727.2	731.5
65°	19768.7	12061.8	1536.2	1011.2	1062.9	903.7	757.4	701.4	671.3	649.8	645.5
67.5°	17535.4	10297.5	1217.8	972.5	1019.8	864.9	705.7	641.2	615.4	593.8	585.2
70°	13718.5	8072.7	1058.6	920.9	916.6	770.3	645.5	589.5	550.8	525.0	525.0
72.5°	8894.6	5103.6	908.0	817.6	791.8	645.5	559.4	525.0	494.9	473.3	473.3
75°	4027.8	2371.0	731.5	684.2	645.5	516.4	473.3	456.1	430.3	408.8	408.8
77.5°	1445.9	1011.2	546.5	537.9	482.0	400.2	383.0	370.1	352.9	331.3	331.3
80°	809.0	641.2	408.8	391.6	335.6	296.9	275.4	275.4	266.8	253.9	249.6
82.5°	512.1	417.4	301.2	262.5	219.5	197.9	189.3	185.0	180.7	163.5	159.2
85°	322.7	284.0	197.9	154.9	129.1	99.0	94.7	90.4	81.8	73.2	73.2
87.5°	146.3	163.5	77.5	47.3	34.4	21.5	12.9	4.3	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)