

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: P480397

Luminaire Tested: **IFLD-S-SA6D-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480397
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

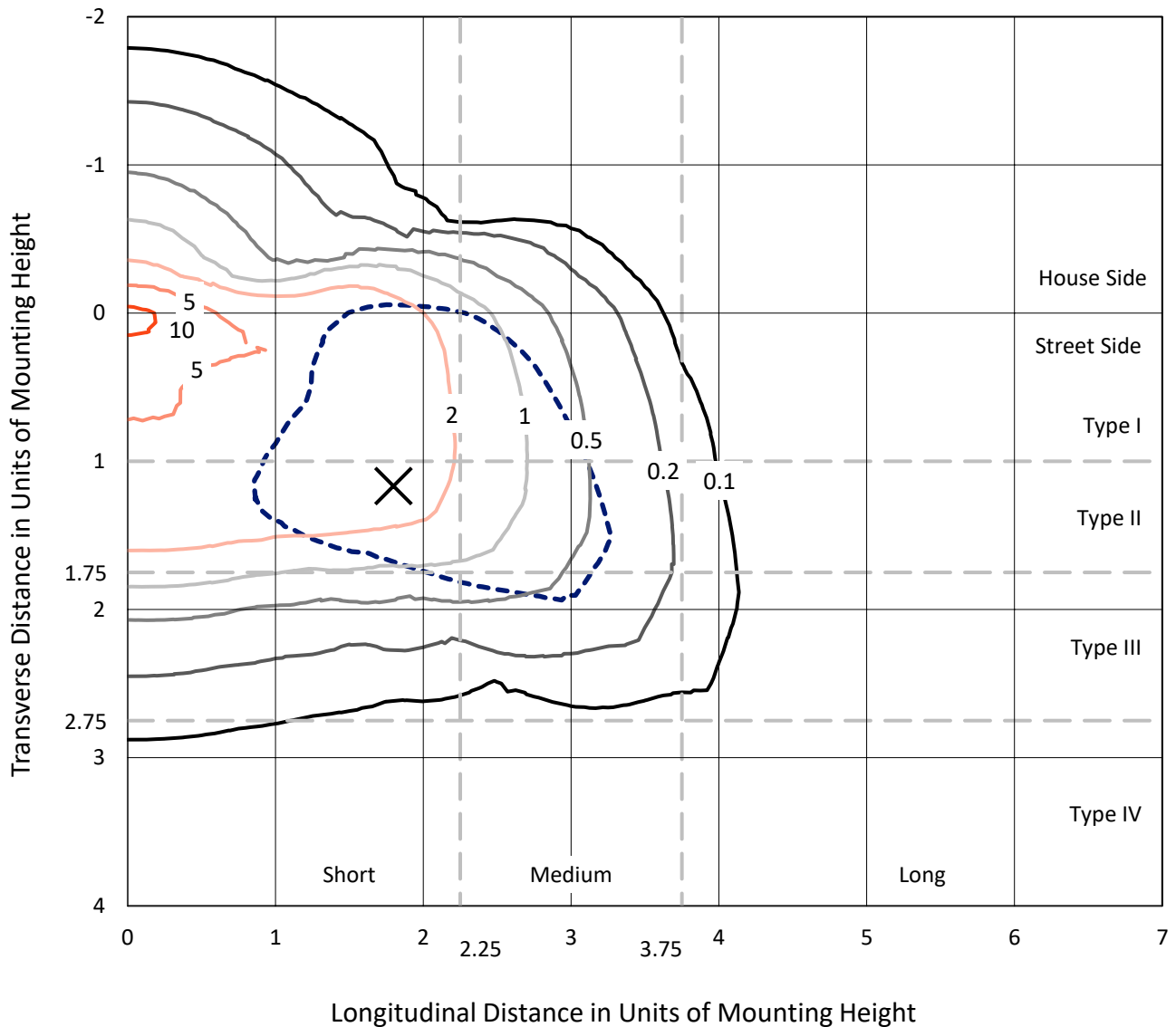
Lumens per Lamp: N/A
Luminaire Lumens: 37729.6 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

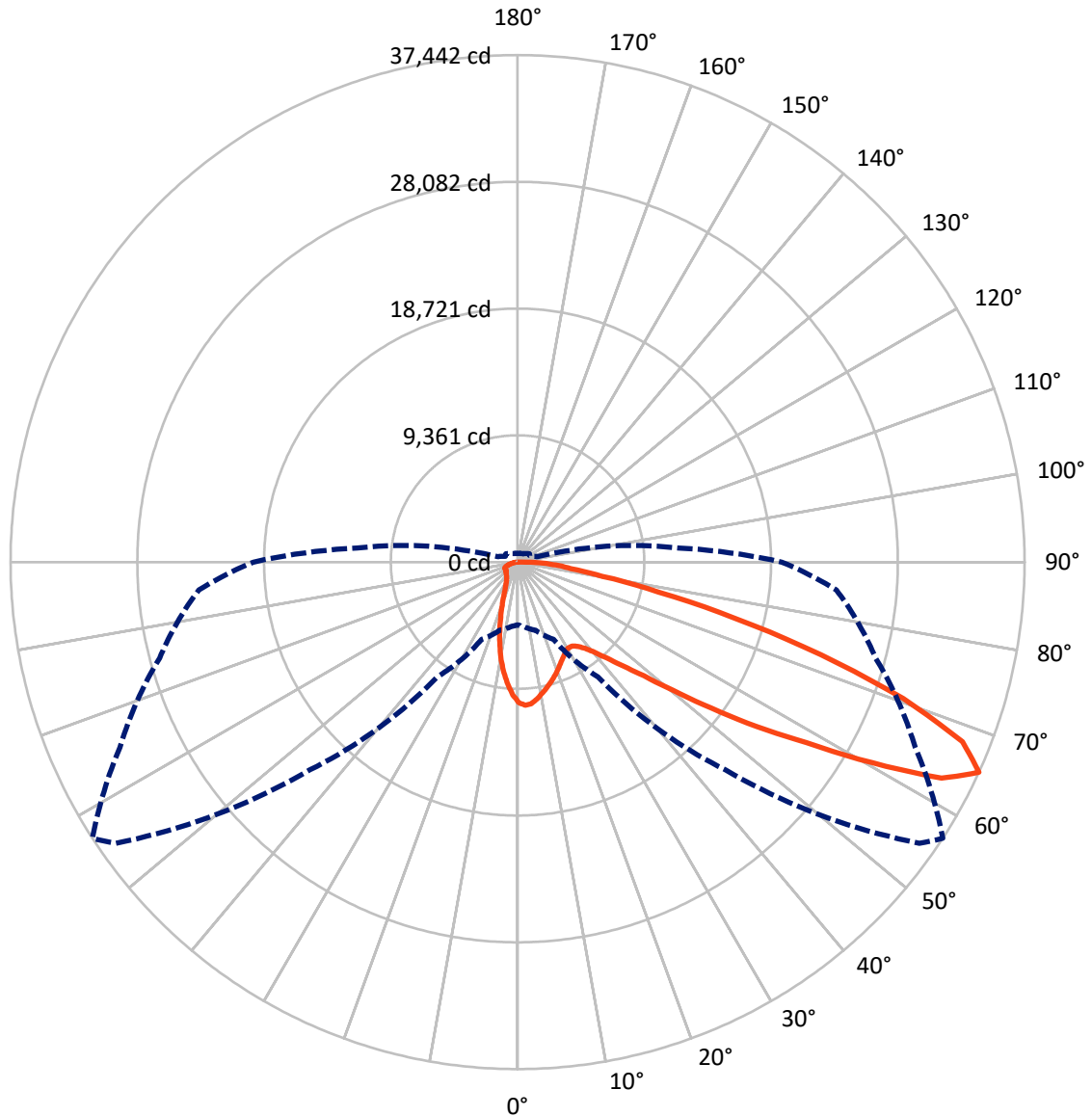
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 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	5786.2	0.0	5786.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	31943.4	0.0	31943.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	37729.6	0.0	37729.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.8	2.3
10°-20°	1869.9	5.0
20°-30°	2417.6	6.4
30°-40°	3253.3	8.6
40°-50°	5187.5	13.7
50°-60°	9162.3	24.3
60°-70°	10079.8	26.7
70°-80°	4216.6	11.2
80°-90°	673.9	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°	37729.6	100.0
0°-180°	37729.6	100.0

Coefficient of Utilization



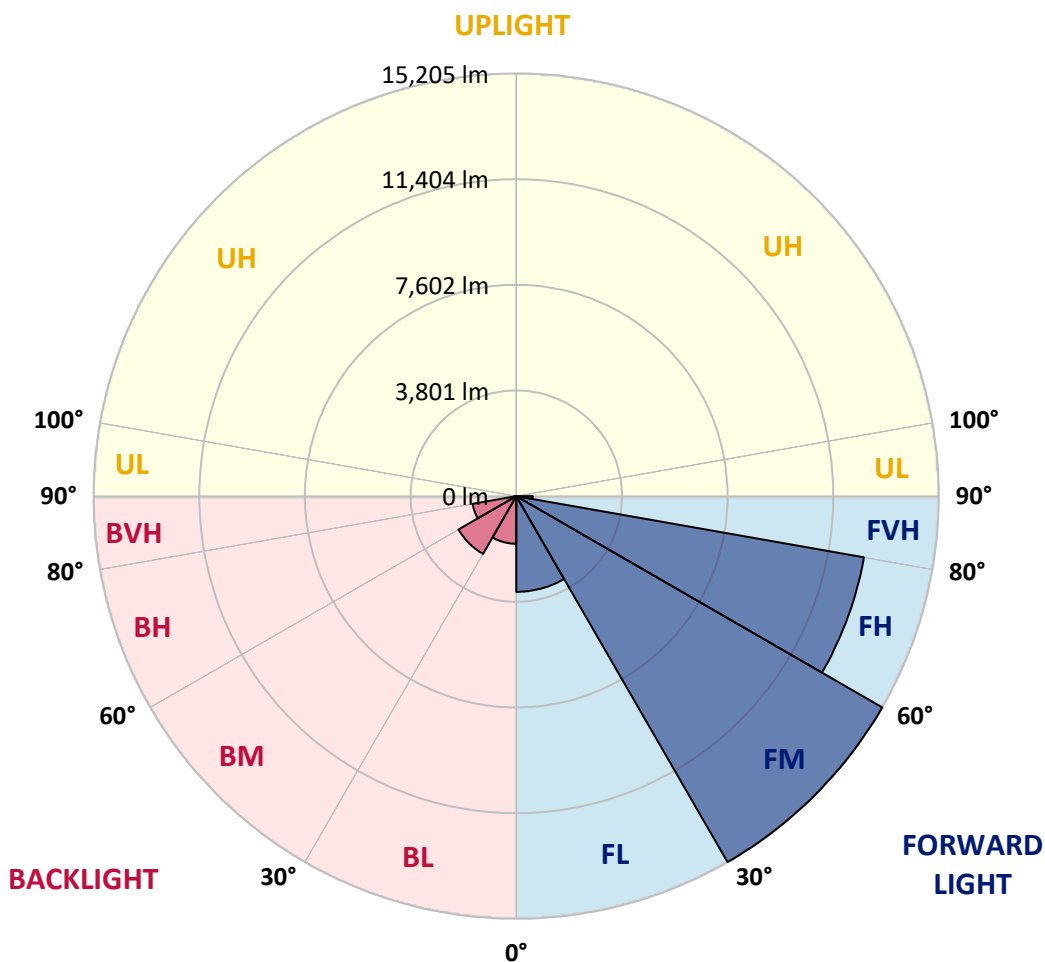
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3442.7	9.1			
FM (30°-60°)	15205.0	40.3			
FH (60°-80°)	12700.9	33.7			G5
FVH (80°-90°)	594.8	1.6			G4/750
BL (0°-30°)	1713.6	4.5	B3/2500		
BM (30°-60°)	2398.1	6.4	B2/2500		
BH (60°-80°)	1595.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	79.1	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°	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1
2.5°	10655.3	10672.3	10672.3	10706.2	10591.6	10646.8	10638.3	10587.4	10604.3	10515.2	10426.0
5°	10353.9	10341.1	10409.1	10417.6	10506.7	10532.2	10553.4	10519.4	10527.9	10332.7	10247.8
7.5°	9581.3	9577.0	9691.6	9789.3	9976.1	10150.1	10264.7	10230.8	10277.5	10154.4	9954.8
10°	8664.3	8762.0	8880.8	8978.5	9322.3	9543.1	9840.2	9869.9	10048.2	10018.5	9657.7
12.5°	7976.6	8019.1	8108.2	8388.4	8702.5	9067.6	9492.1	9530.3	9704.4	9789.3	9475.1
15°	7412.0	7450.2	7564.8	7772.8	8125.2	8558.2	9097.3	9195.0	9543.1	9572.8	9237.4
17.5°	7000.2	7029.9	7106.4	7314.4	7603.0	8159.1	8668.6	8842.6	9301.1	9445.4	8991.2
20°	6838.9	6775.2	6817.7	6949.3	7238.0	7666.7	8324.7	8477.5	9063.4	9347.8	8757.7
22.5°	6766.7	6711.6	6737.0	6728.5	6957.8	7263.4	7955.4	8116.7	8838.4	9233.2	8549.7
25°	6821.9	6821.9	6796.5	6775.2	6800.7	7000.2	7556.3	7806.8	8537.0	9135.5	8337.4
27.5°	7119.1	7004.5	7017.2	6928.1	6902.6	6902.6	7378.0	7526.6	8439.3	9080.3	8163.4
30°	7310.1	7365.3	7369.6	7238.0	7106.4	6868.6	7212.5	7356.8	8358.7	9148.3	8061.5
32.5°	7798.3	7772.8	7700.7	7675.2	7479.9	7212.5	7293.1	7390.8	8312.0	9301.1	8091.2
35°	8286.5	8273.8	8278.0	8265.3	8061.5	7666.7	7509.6	7641.2	8396.9	9568.5	8193.1
37.5°	8791.7	8825.6	8970.0	8970.0	8753.5	8324.7	8116.7	8078.5	8706.8	10005.8	8435.1
40°	9296.8	9381.7	9564.3	9853.0	9547.3	9148.3	8812.9	8753.5	9080.3	10591.6	9016.7
42.5°	9780.8	9920.9	10281.7	10710.5	10608.6	10209.5	9763.8	9695.9	9848.7	11461.9	9827.5
45°	10400.6	10519.4	11088.3	11746.3	11886.4	11534.0	11011.9	10956.7	10948.2	12735.4	10944.0
47.5°	11343.0	11470.4	12039.2	12701.4	13134.4	13189.6	12603.8	12544.4	12340.6	14454.7	12578.3
50°	12523.1	12731.2	13210.9	13983.5	14611.8	15201.8	15036.3	14862.2	14463.2	16454.1	14650.0
52.5°	13384.9	13639.6	14289.1	15278.2	16386.2	17324.4	17918.7	17918.7	17001.8	18648.9	17141.9
55°	13614.1	13767.0	14586.3	16016.9	17914.5	20287.5	21531.3	21437.9	20024.3	20958.2	20041.3
57.5°	12701.4	12901.0	13894.3	15392.9	18716.8	23059.6	25118.5	25139.7	23327.0	23641.2	22902.5
60°	10188.3	10252.0	11423.7	13427.4	17944.2	25292.5	30017.3	30098.0	27084.0	26031.2	24358.6
62.5°	7042.7	7246.4	8129.4	9886.9	14866.5	25042.0	34742.2	35141.2	30093.8	27292.0	24587.8
65°	4635.7	4758.8	5230.0	6299.8	10349.6	21705.4	36211.0	37442.1	32394.6	27364.1	23628.4
67.5°	3362.1	3383.4	3523.5	4075.3	6219.1	15609.4	33702.1	35438.4	33256.4	26761.3	21378.5
70°	2716.9	2733.9	2784.8	3137.2	4015.9	9768.1	27487.2	30208.4	30671.1	23904.3	17218.3
72.5°	2207.5	2228.7	2292.4	2623.5	3311.2	5433.8	20100.7	23416.2	24948.7	17685.2	11444.9
75°	1736.3	1753.2	1906.1	2232.9	3111.7	3731.5	13334.0	16581.5	16789.5	10336.9	5357.4
77.5°	1188.6	1218.4	1405.1	1893.3	2929.1	3264.5	8312.0	10621.3	9530.3	4045.6	1842.4
80°	755.6	798.1	908.5	1434.9	2589.5	3115.9	5170.6	6342.2	4173.0	1383.9	887.2
82.5°	445.7	488.2	598.6	929.7	2033.4	2890.9	3642.3	3969.2	1957.0	708.9	534.9
85°	246.2	275.9	360.8	560.4	1192.9	2568.3	2916.4	2848.5	1120.7	377.8	335.4
87.5°	80.7	93.4	131.6	225.0	492.4	1209.9	1749.0	1642.9	581.6	174.1	131.6
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°	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1	10375.1
2.5°	10366.6	10353.9	10162.9	10018.5	9772.3	9568.5	9487.9	9377.5	9373.3	9292.6	9271.4
5°	10116.2	9984.6	9691.6	9411.5	8974.2	8681.3	8413.9	8227.1	8150.7	7985.1	7946.9
7.5°	9793.5	9619.5	9169.5	8643.1	8129.4	7671.0	7254.9	6838.9	6605.4	6524.8	6435.6
10°	9458.2	9152.5	8486.0	7895.9	7178.5	6473.8	5820.1	5234.3	4915.9	4690.9	4593.2
12.5°	9190.7	8783.2	7934.2	7051.2	6104.5	5162.1	4402.2	3786.7	3425.8	3256.0	3179.6
15°	8889.3	8350.2	7331.3	6214.9	5034.7	3965.0	3222.1	2738.1	2593.8	2513.1	2500.4
17.5°	8570.9	7946.9	6677.6	5391.3	3990.4	2984.3	2504.6	2309.4	2245.7	2211.7	2194.7
20°	8273.8	7586.1	6006.9	4474.4	3124.4	2394.3	2169.3	2067.4	2063.1	2080.1	2075.9
22.5°	7853.5	7114.8	5344.6	3625.3	2496.1	2084.4	1940.0	1914.6	1940.0	1961.3	1969.7
25°	7615.8	6728.5	4606.0	2878.2	2063.1	1850.9	1804.2	1795.7	1833.9	1859.4	1855.1
27.5°	7369.6	6329.5	3918.3	2305.1	1808.4	1685.3	1676.8	1685.3	1723.5	1761.7	1757.5
30°	7178.5	6011.1	3273.0	1927.3	1613.2	1566.5	1558.0	1566.5	1587.7	1591.9	1591.9
32.5°	7021.5	5633.3	2725.4	1672.6	1494.3	1456.1	1464.6	1460.3	1464.6	1468.8	1473.1
35°	6928.1	5408.3	2275.4	1515.5	1396.6	1366.9	1362.7	1350.0	1354.2	1358.4	1354.2
37.5°	7127.6	5297.9	1918.8	1405.1	1328.7	1303.3	1294.8	1286.3	1273.5	1273.5	1273.5
40°	7429.0	5238.5	1702.3	1333.0	1277.8	1248.1	1222.6	1214.1	1214.1	1218.4	1222.6
42.5°	8027.5	5336.1	1553.7	1277.8	1214.1	1180.1	1154.7	1158.9	1171.7	1184.4	1175.9
45°	8893.6	5633.3	1485.8	1235.3	1175.9	1129.2	1112.2	1108.0	1120.7	1141.9	1158.9
47.5°	10027.0	6096.0	1460.3	1197.1	1150.4	1086.8	1065.5	1078.3	1095.2	1125.0	1112.2
50°	11882.1	7136.1	1481.6	1163.2	1112.2	1065.5	1040.1	1027.3	1040.1	1061.3	1069.8
52.5°	14306.1	9025.2	1562.2	1146.2	1086.8	1048.5	1006.1	984.9	997.6	1014.6	1014.6
55°	17205.5	11606.2	1787.2	1125.0	1044.3	1023.1	976.4	933.9	942.4	942.4	938.2
57.5°	19761.1	13554.7	2054.6	1095.2	1018.8	989.1	929.7	878.7	870.3	874.5	878.7
60°	20907.3	14072.6	2182.0	1086.8	1018.8	946.7	866.0	815.1	802.3	793.8	793.8
62.5°	20707.8	13176.9	1923.0	1048.5	1044.3	912.7	806.6	751.4	734.4	717.4	721.7
65°	19502.1	11899.1	1515.5	997.6	1048.5	891.5	747.1	692.0	662.2	641.0	636.8
67.5°	17298.9	10158.6	1201.4	959.4	1006.1	853.3	696.2	632.5	607.1	585.8	577.3
70°	13533.5	7963.9	1044.3	908.5	904.2	759.9	636.8	581.6	543.4	517.9	517.9
72.5°	8774.7	5034.7	895.7	806.6	781.1	636.8	551.9	517.9	488.2	467.0	467.0
75°	3973.4	2339.1	721.7	675.0	636.8	509.4	467.0	450.0	424.5	403.3	403.3
77.5°	1426.4	997.6	539.1	530.6	475.5	394.8	377.8	365.1	348.1	326.9	326.9
80°	798.1	632.5	403.3	386.3	331.1	292.9	271.7	271.7	263.2	250.5	246.2
82.5°	505.2	411.8	297.2	259.0	216.5	195.3	186.8	182.5	178.3	161.3	157.1
85°	318.4	280.2	195.3	152.8	127.4	97.6	93.4	89.1	80.7	72.2	72.2
87.5°	144.3	161.3	76.4	46.7	34.0	21.2	12.7	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)