

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: P476834

Luminaire Tested: **IFLD-S-SA3E-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476834
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

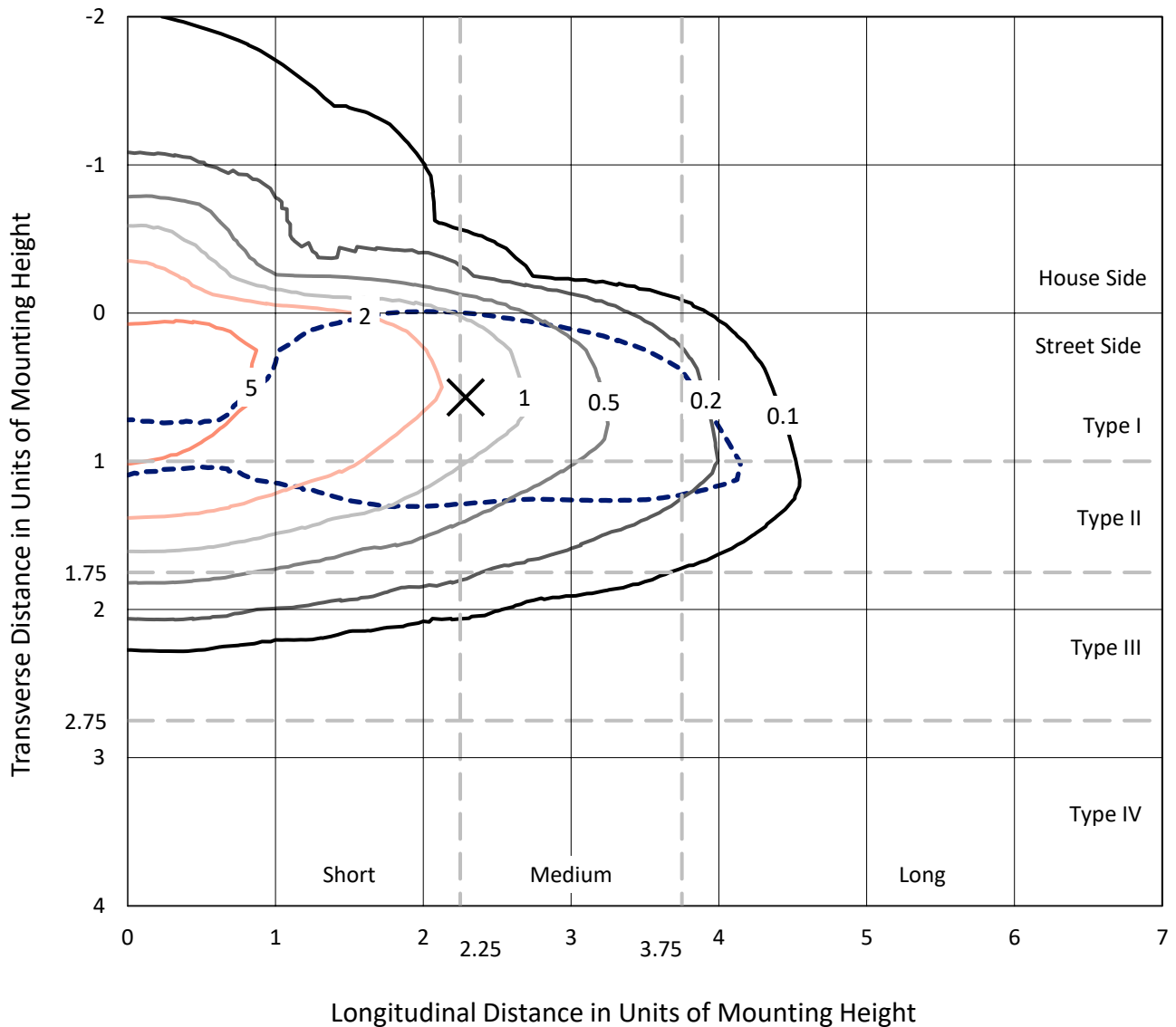
Lumens per Lamp: N/A
Luminaire Lumens: 19980.2 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
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

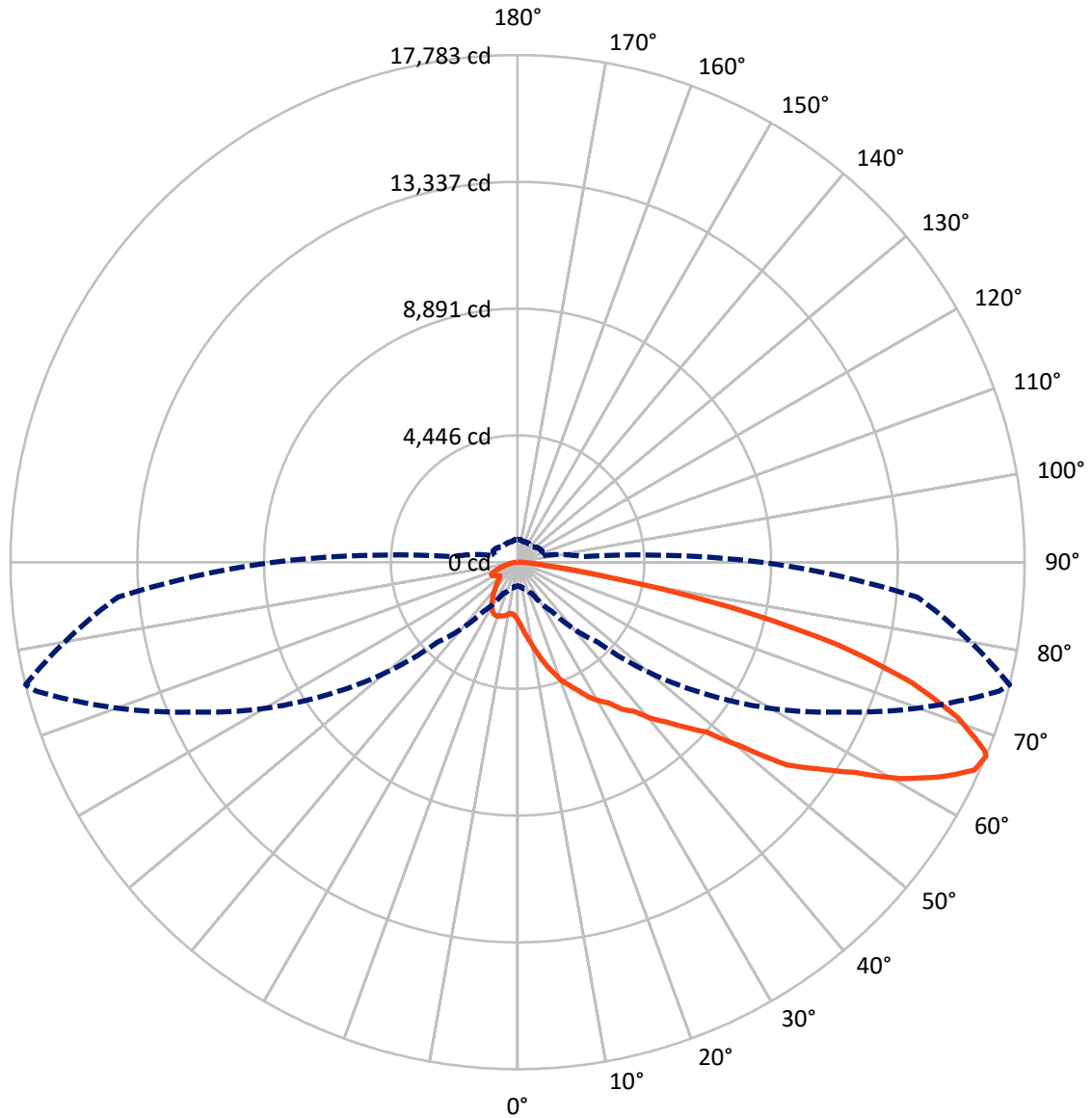
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2842.4	0.0	2842.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17137.8	0.0	17137.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	19980.2	0.0	19980.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.2
10°-20°	888.3	4.4
20°-30°	1651.5	8.3
30°-40°	2617.9	13.1
40°-50°	3620.8	18.1
50°-60°	4453.9	22.3
60°-70°	4144.5	20.7
70°-80°	2079.7	10.4
80°-90°	286.8	1.4
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°	19980.2	100.0
0°-180°	19980.2	100.0

Coefficient of Utilization



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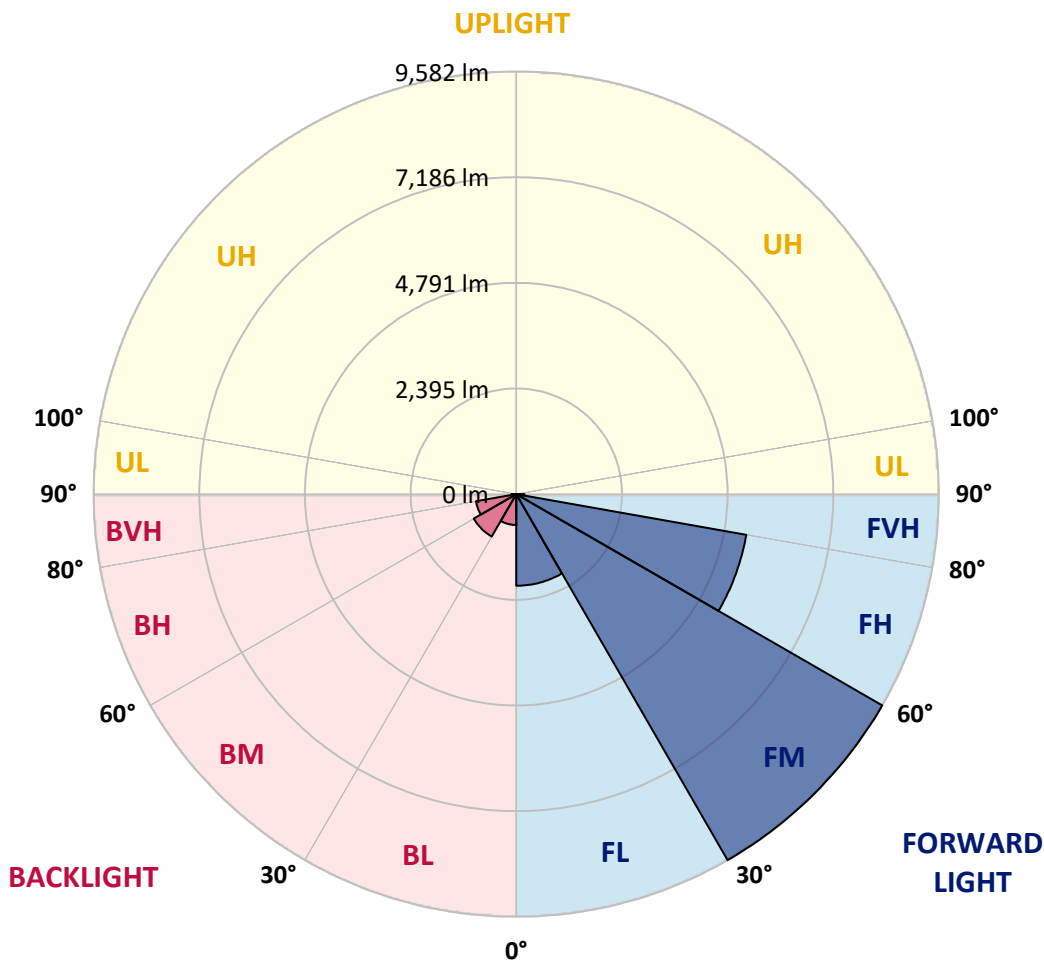
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.6	10.4			
FM (30°-60°)	9581.9	48.0			
FH (60°-80°)	5296.6	26.5			G3/7500
FVH (80°-90°)	182.7	0.9			G2/225
BL (0°-30°)	700.0	3.5	B2/1000		
BM (30°-60°)	1110.8	5.6	B2/2500		
BH (60°-80°)	927.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	104.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7
2.5°	2837.0	2802.9	2768.7	2695.9	2670.8	2602.5	2477.3	2338.4	2224.5	2208.6	2128.9
5°	3520.1	3470.0	3458.6	3417.7	3287.9	3155.8	2950.9	2727.7	2450.0	2470.5	2197.2
7.5°	4032.4	4002.8	3941.3	3902.6	3825.2	3649.9	3438.1	3142.1	2789.2	2720.9	2349.8
10°	4419.5	4378.5	4376.2	4342.1	4301.1	4121.2	3959.6	3561.1	3108.0	3014.6	2536.5
12.5°	4615.3	4608.5	4729.2	4729.2	4713.2	4638.1	4360.3	3996.0	3410.8	3378.9	2752.8
15°	4827.1	4770.1	4874.9	4954.6	4995.6	5034.3	4804.3	4419.5	3797.9	3736.4	2985.0
17.5°	4827.1	4822.5	4927.2	5059.3	5273.3	5323.4	5198.2	4808.8	4118.9	4073.4	3240.1
20°	4745.1	4811.1	4884.0	5061.6	5293.8	5496.5	5532.9	5207.3	4474.1	4437.7	3529.2
22.5°	5127.6	5063.9	5139.0	5207.3	5387.2	5694.6	5794.8	5558.0	4847.6	4708.7	3791.1
25°	5769.7	5726.4	5671.8	5571.6	5646.8	5781.1	5933.6	5817.5	5166.3	5011.5	4043.8
27.5°	6395.9	6398.1	6279.7	6061.2	5899.5	5926.8	6106.7	6045.2	5435.0	5366.7	4216.9
30°	7286.1	7231.5	7099.4	6803.4	6486.9	6227.4	6197.8	6257.0	5776.5	5644.5	4465.0
32.5°	7953.3	7964.7	7777.9	7352.2	6919.6	6707.8	6448.2	6473.3	5992.8	5894.9	4663.1
35°	8492.9	8479.2	8347.2	7994.3	7481.9	7226.9	6876.3	6732.8	6496.0	6341.2	4966.0
37.5°	9075.8	8964.2	8750.2	8351.7	8023.9	7670.9	7329.4	7006.1	6830.8	6644.0	5225.5
40°	9310.3	9310.3	9023.4	8841.3	8451.9	8185.5	7964.7	7365.8	7238.3	7201.9	5558.0
42.5°	9144.1	9246.6	9128.2	8921.0	8761.6	8424.6	8365.4	7739.2	7741.5	7668.7	5956.4
45°	9128.2	8987.0	8889.1	8941.5	8866.3	8848.1	8998.4	8256.1	8269.8	8260.7	6491.5
47.5°	8670.5	8606.7	8752.5	8839.0	8900.5	9182.8	9615.4	8873.1	8971.1	8902.7	7108.5
50°	8215.1	8203.7	8294.8	8609.0	8875.4	9339.9	10202.9	9824.9	10145.9	10141.4	8226.5
52.5°	6967.4	7088.0	7445.5	8110.4	8768.4	9553.9	10646.9	11040.8	11653.3	11819.5	9153.2
55°	5774.3	5710.5	6238.8	7204.2	8301.6	9638.2	11143.2	11771.7	12673.3	12794.0	10105.0
57.5°	4492.4	4610.8	5027.4	5954.1	7336.2	9221.5	11507.5	12493.4	13825.4	13918.8	11209.3
60°	3351.6	3367.6	3825.2	4572.0	6052.0	8281.1	11625.9	13233.4	15146.1	15412.5	12365.9
62.5°	2108.4	2204.1	2552.4	3287.9	4556.1	6965.1	11095.4	13682.0	16530.4	16601.0	13531.7
65°	1136.2	1197.7	1459.5	1921.7	3183.1	5268.8	9688.3	13413.3	17181.6	17600.6	14050.9
67°	840.2	851.6	972.2	1227.3	2128.9	3966.4	8078.5	12441.1	17477.6	17782.7	14071.3
67.5°	787.8	803.8	899.4	1102.0	1887.6	3652.2	7657.3	12095.0	17345.6	17673.4	13912.0
70°	674.0	678.5	701.3	758.2	1058.8	2197.2	5214.1	9911.4	16077.3	16391.5	12794.0
72.5°	598.8	603.4	612.5	623.9	717.2	1270.5	3171.7	7627.7	13973.4	14474.4	11038.5
75°	526.0	541.9	546.5	537.4	610.2	826.5	1687.2	5605.8	11398.2	11641.9	8584.0
77.5°	446.3	453.1	462.2	471.3	544.2	617.0	810.6	3784.2	7823.5	7675.5	4642.6
80°	375.7	378.0	384.8	391.6	471.3	471.3	459.9	2044.7	3417.7	3267.4	1568.8
82.5°	268.7	284.6	300.6	318.8	391.6	316.5	300.6	910.8	1081.5	1029.2	530.5
85°	104.7	127.5	198.1	218.6	248.2	170.8	200.4	393.9	450.8	446.3	198.1
87.5°	18.2	20.5	54.6	84.2	91.1	59.2	95.6	141.2	168.5	182.2	72.9
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°	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7
2.5°	2062.9	1992.3	1908.1	1823.8	1769.2	1682.6	1675.8	1623.4	1616.6	1598.4	1607.5
5°	2078.8	1994.6	1823.8	1689.5	1628.0	1577.9	1589.3	1566.5	1559.7	1548.3	1530.1
7.5°	2204.1	2037.8	1782.8	1666.7	1621.2	1598.4	1598.4	1571.1	1550.6	1564.2	1577.9
10°	2286.0	2058.3	1814.7	1698.6	1662.1	1612.1	1630.3	1596.1	1607.5	1580.2	1580.2
12.5°	2418.1	2174.5	1880.7	1746.4	1687.2	1641.7	1659.9	1621.2	1612.1	1614.3	1607.5
15°	2595.7	2251.9	1910.3	1773.7	1732.7	1675.8	1662.1	1628.0	1593.8	1582.5	1596.1
17.5°	2761.9	2347.5	1930.8	1789.7	1723.6	1659.9	1643.9	1600.7	1589.3	1555.1	1527.8
20°	2960.0	2461.3	1958.1	1803.3	1689.5	1625.7	1584.7	1541.5	1502.8	1482.3	1491.4
22.5°	3092.1	2520.5	1971.8	1776.0	1639.4	1580.2	1493.7	1464.1	1409.4	1386.6	1368.4
25°	3308.4	2593.4	1937.7	1700.9	1550.6	1454.9	1377.5	1336.6	1297.8	1268.2	1259.1
27.5°	3363.0	2648.1	1858.0	1573.3	1409.4	1309.2	1243.2	1193.1	1168.1	1122.5	1113.4
30°	3522.4	2593.4	1739.6	1418.5	1275.1	1172.6	1106.6	1070.2	1011.0	999.6	974.5
32.5°	3624.9	2609.3	1589.3	1268.2	1120.2	1029.2	985.9	949.5	933.5	878.9	865.2
35°	3795.6	2554.7	1436.7	1129.4	992.7	922.2	885.7	874.3	822.0	796.9	774.2
37.5°	3904.9	2522.8	1284.2	972.2	853.8	824.2	835.6	787.8	724.1	676.2	660.3
40°	4096.2	2511.4	1111.1	842.5	758.2	751.4	787.8	696.7	580.6	539.6	516.9
42.5°	4371.7	2434.0	976.8	726.3	683.1	712.7	719.5	580.6	514.6	480.4	464.5
45°	4635.8	2450.0	844.7	601.1	594.3	637.5	621.6	491.8	453.1	428.1	441.7
47.5°	5143.6	2529.7	715.0	500.9	535.1	576.1	482.7	439.4	403.0	384.8	387.1
50°	5929.1	2607.1	601.1	457.7	505.5	521.4	414.4	398.5	396.2	359.8	357.5
52.5°	6400.4	2577.5	580.6	512.3	541.9	521.4	450.8	439.4	421.2	405.3	387.1
55°	7149.5	2664.0	623.9	598.8	614.8	500.9	505.5	500.9	487.3	446.3	457.7
57.5°	7746.1	2720.9	680.8	669.4	660.3	521.4	528.2	530.5	521.4	503.2	519.1
60°	8565.8	2834.8	740.0	742.3	744.6	567.0	578.3	592.0	589.7	582.9	587.4
62.5°	9069.0	2782.4	806.0	842.5	831.1	660.3	658.0	667.1	667.1	678.5	685.4
65°	8993.8	2588.9	840.2	931.3	872.1	728.6	728.6	733.2	735.4	758.2	760.5
67°	8543.0	2242.8	822.0	944.9	872.1	755.9	755.9	760.5	744.6	803.8	785.5
67.5°	8333.5	2140.3	806.0	933.5	865.2	753.7	753.7	755.9	742.3	799.2	781.0
70°	7247.4	1589.3	694.5	826.5	801.5	733.2	733.2	719.5	708.1	783.3	767.3
72.5°	6186.4	1154.4	557.8	703.6	724.1	705.8	710.4	676.2	644.4	696.7	683.1
75°	4738.3	849.3	434.9	541.9	612.5	660.3	689.9	603.4	562.4	576.1	551.0
77.5°	2643.5	553.3	343.8	400.7	466.8	614.8	662.6	544.2	459.9	444.0	444.0
80°	897.1	323.3	252.7	298.3	321.0	544.2	619.3	441.7	362.0	346.1	334.7
82.5°	339.3	198.1	173.0	204.9	204.9	430.3	505.5	339.3	273.2	352.9	359.8
85°	154.8	118.4	113.8	118.4	118.4	264.1	357.5	220.9	245.9	211.8	186.7
87.5°	61.5	56.9	52.4	50.1	41.0	45.5	123.0	59.2	111.6	29.6	27.3
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)