

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: P476873

Luminaire Tested: **IFLD-S-SA3E-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

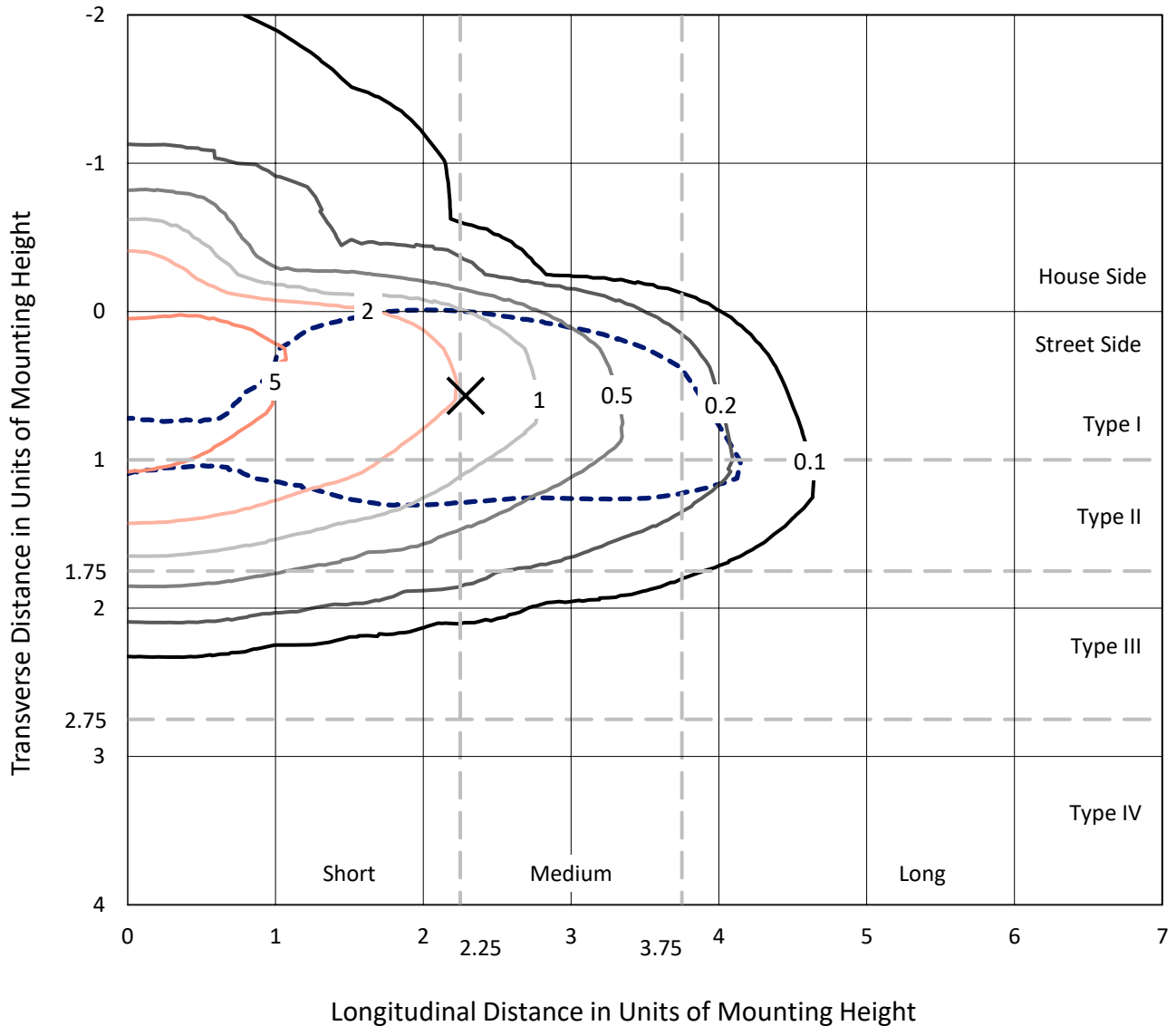
Lumens per Lamp: N/A
Luminaire Lumens: 22684.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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

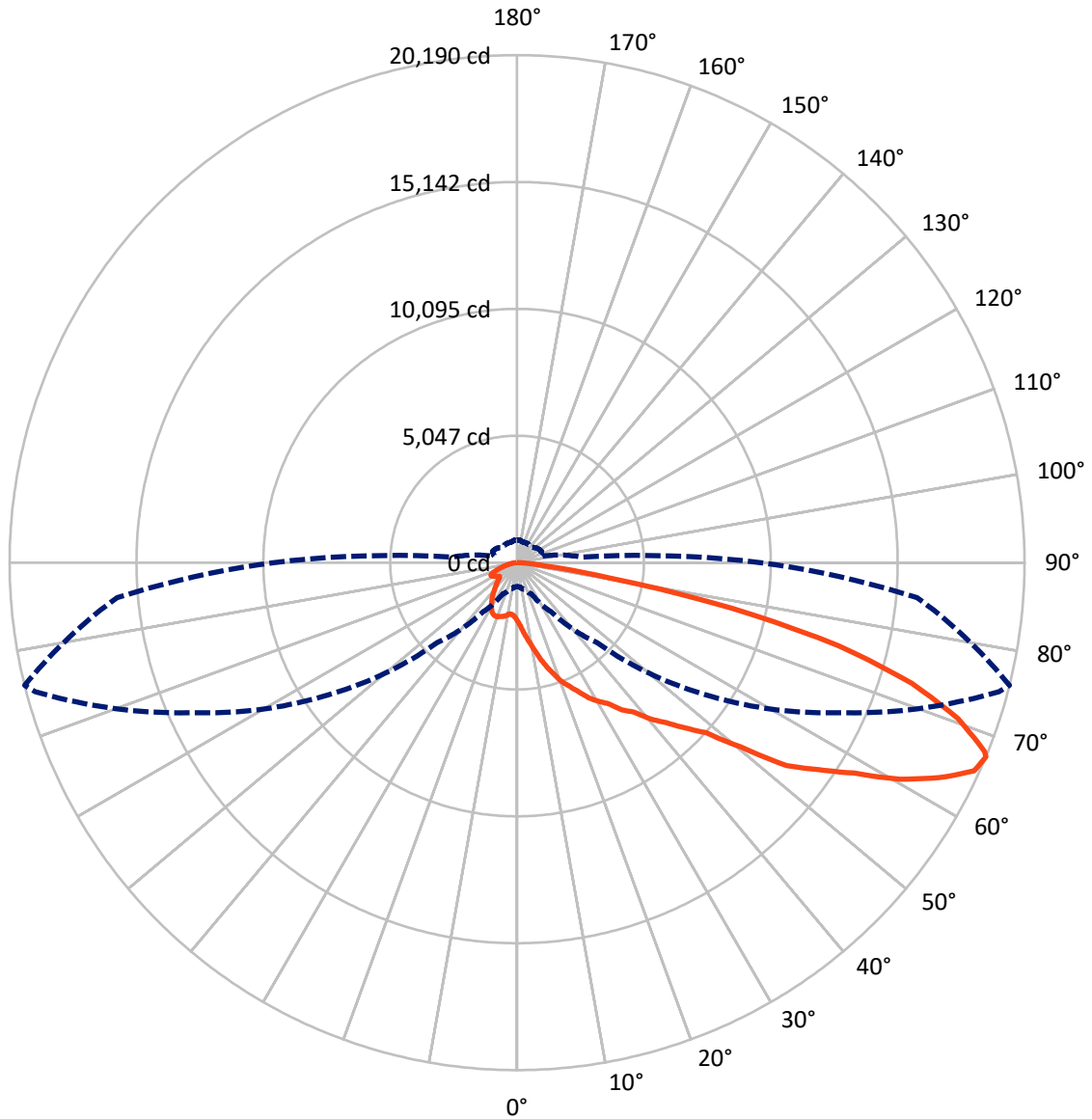
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	3227.2	0.0	3227.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19457.4	0.0	19457.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	22684.6	0.0	22684.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.9	1.2
10°-20°	1008.5	4.4
20°-30°	1875.0	8.3
30°-40°	2972.3	13.1
40°-50°	4110.9	18.1
50°-60°	5056.7	22.3
60°-70°	4705.5	20.7
70°-80°	2361.2	10.4
80°-90°	325.6	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°	22684.6	100.0
0°-180°	22684.6	100.0

Coefficient of Utilization



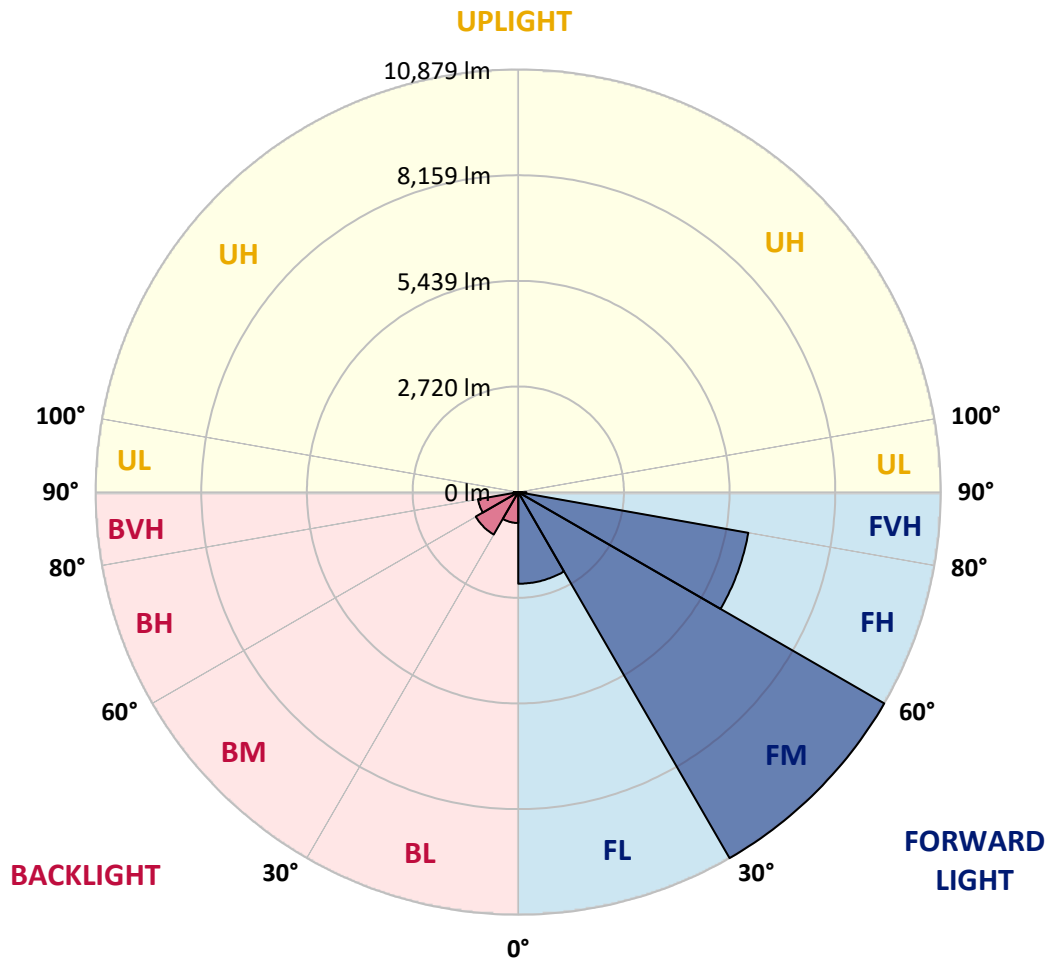
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2357.7	10.4			
FM (30°-60°)	10878.8	48.0			
FH (60°-80°)	6013.5	26.5			G3/7500
FVH (80°-90°)	207.4	0.9			G2/225
BL (0°-30°)	794.7	3.5	B2/1000		
BM (30°-60°)	1261.1	5.6	B2/2500		
BH (60°-80°)	1053.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	118.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4
2.5°	3221.0	3182.3	3143.5	3060.8	3032.3	2954.8	2812.6	2654.9	2525.6	2507.5	2417.1
5°	3996.6	3939.7	3926.8	3880.2	3732.9	3583.0	3350.3	3097.0	2781.6	2804.8	2494.6
7.5°	4578.2	4544.6	4474.8	4430.9	4343.0	4143.9	3903.5	3567.4	3166.7	3089.2	2667.8
10°	5017.7	4971.1	4968.6	4929.8	4883.3	4679.0	4495.5	4043.1	3528.7	3422.7	2879.8
12.5°	5240.0	5232.2	5369.3	5369.3	5351.2	5265.9	4950.5	4536.9	3872.5	3836.3	3125.4
15°	5480.4	5415.8	5534.7	5625.2	5671.7	5715.7	5454.6	5017.7	4311.9	4242.2	3389.1
17.5°	5480.4	5475.2	5594.2	5744.1	5987.1	6044.0	5901.8	5459.7	4676.4	4624.7	3678.6
20°	5387.4	5462.3	5545.0	5746.7	6010.4	6240.4	6281.8	5912.1	5079.7	5038.4	4006.9
22.5°	5821.6	5749.3	5834.6	5912.1	6116.3	6465.3	6579.1	6310.2	5503.7	5346.0	4304.2
25°	6550.6	6501.5	6439.5	6325.7	6411.1	6563.6	6736.8	6604.9	5865.6	5689.8	4591.1
27.5°	7261.5	7264.1	7129.7	6881.5	6698.0	6729.0	6933.2	6863.4	6170.6	6093.1	4787.6
30°	8272.3	8210.3	8060.3	7724.3	7365.0	7070.3	7036.6	7103.9	6558.4	6408.5	5069.4
32.5°	9029.8	9042.7	8830.7	8347.3	7856.1	7615.7	7321.0	7349.4	6804.0	6692.8	5294.3
35°	9642.4	9626.9	9477.0	9076.3	8494.6	8205.1	7807.0	7644.1	7375.3	7199.5	5638.1
37.5°	10304.2	10177.5	9934.5	9482.2	9109.9	8709.2	8321.4	7954.4	7755.3	7543.3	5932.8
40°	10570.5	10570.5	10244.8	10037.9	9595.9	9293.4	9042.7	8362.8	8218.0	8176.7	6310.2
42.5°	10381.8	10498.1	10363.7	10128.4	9947.5	9564.9	9497.7	8786.8	8789.3	8706.6	6762.6
45°	10363.7	10203.4	10092.2	10151.7	10066.4	10045.7	10216.3	9373.6	9389.1	9378.7	7370.1
47.5°	9844.1	9771.7	9937.1	10035.4	10105.2	10425.7	10916.9	10074.1	10185.3	10107.7	8070.7
50°	9327.0	9314.1	9417.5	9774.3	10076.7	10604.1	11583.8	11154.7	11519.2	11514.0	9340.0
52.5°	7910.4	8047.4	8453.3	9208.1	9955.2	10847.1	12087.9	12535.2	13230.5	13419.3	10392.1
55°	6555.8	6483.4	7083.2	8179.3	9425.3	10942.7	12651.5	13365.0	14388.7	14525.7	11472.7
57.5°	5100.4	5234.8	5707.9	6760.0	8329.2	10469.7	13065.1	14184.5	15696.7	15802.7	12726.5
60°	3805.3	3823.4	4343.0	5190.9	6871.2	9402.0	13199.5	15024.6	17196.1	17498.6	14039.7
62.5°	2393.8	2502.4	2897.9	3732.9	5172.8	7907.8	12597.2	15533.9	18767.8	18848.0	15363.3
65°	1290.0	1359.8	1657.0	2181.8	3614.0	5981.9	10999.6	15228.8	19507.2	19982.8	15952.7
67°	953.9	966.8	1103.8	1393.4	2417.1	4503.2	9171.9	14125.0	19843.2	20189.6	15975.9
67.5°	894.4	912.5	1021.1	1251.2	2143.0	4146.5	8693.7	13732.1	19693.3	20065.6	15795.0
70°	765.2	770.4	796.2	860.8	1202.1	2494.6	5919.9	11252.9	18253.4	18610.1	14525.7
72.5°	679.9	685.1	695.4	708.3	814.3	1442.5	3601.0	8660.1	15864.8	16433.5	12532.6
75°	597.2	615.3	620.4	610.1	692.8	938.4	1915.6	6364.5	12941.0	13217.6	9745.8
77.5°	506.7	514.4	524.8	535.1	617.8	700.6	920.3	4296.4	8882.4	8714.4	5271.0
80°	426.5	429.1	436.9	444.6	535.1	535.1	522.2	2321.4	3880.2	3709.6	1781.1
82.5°	305.0	323.1	341.2	361.9	444.6	359.3	341.2	1034.0	1227.9	1168.5	602.3
85°	118.9	144.8	224.9	248.2	281.8	193.9	227.5	447.2	511.9	506.7	224.9
87.5°	20.7	23.3	62.0	95.6	103.4	67.2	108.6	160.3	191.3	206.8	82.7
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°	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4
2.5°	2342.1	2262.0	2166.3	2070.7	2008.6	1910.4	1902.6	1843.2	1835.4	1814.7	1825.1
5°	2360.2	2264.5	2070.7	1918.1	1848.3	1791.5	1804.4	1778.5	1770.8	1757.9	1737.2
7.5°	2502.4	2313.7	2024.1	1892.3	1840.6	1814.7	1814.7	1783.7	1760.5	1776.0	1791.5
10°	2595.4	2336.9	2060.3	1928.5	1887.1	1830.3	1850.9	1812.2	1825.1	1794.1	1794.1
12.5°	2745.4	2468.8	2135.3	1982.8	1915.6	1863.9	1884.5	1840.6	1830.3	1832.8	1825.1
15°	2947.0	2556.7	2168.9	2013.8	1967.3	1902.6	1887.1	1848.3	1809.6	1796.6	1812.2
17.5°	3135.7	2665.2	2192.2	2031.9	1956.9	1884.5	1866.4	1817.3	1804.4	1765.6	1734.6
20°	3360.6	2794.5	2223.2	2047.4	1918.1	1845.8	1799.2	1750.1	1706.2	1682.9	1693.2
22.5°	3510.6	2861.7	2238.7	2016.4	1861.3	1794.1	1695.8	1662.2	1600.2	1574.3	1553.6
25°	3756.2	2944.4	2199.9	1931.1	1760.5	1651.9	1564.0	1517.5	1473.5	1439.9	1429.6
27.5°	3818.2	3006.5	2109.4	1786.3	1600.2	1486.4	1411.5	1354.6	1326.2	1274.5	1264.1
30°	3999.2	2944.4	1975.0	1610.5	1447.7	1331.3	1256.4	1215.0	1147.8	1134.9	1106.4
32.5°	4115.5	2962.5	1804.4	1439.9	1271.9	1168.5	1119.3	1078.0	1059.9	997.8	982.3
35°	4309.4	2900.5	1631.2	1282.2	1127.1	1047.0	1005.6	992.7	933.2	904.8	878.9
37.5°	4433.4	2864.3	1458.0	1103.8	969.4	935.8	948.7	894.4	822.1	767.8	749.7
40°	4650.6	2851.4	1261.5	956.5	860.8	853.1	894.4	791.0	659.2	612.7	586.8
42.5°	4963.4	2763.5	1109.0	824.6	775.5	809.1	816.9	659.2	584.2	545.5	527.4
45°	5263.3	2781.6	959.1	682.5	674.7	723.8	705.7	558.4	514.4	486.0	501.5
47.5°	5839.7	2872.0	811.7	568.7	607.5	654.0	548.0	498.9	457.6	436.9	439.5
50°	6731.6	2959.9	682.5	519.6	573.9	592.0	470.5	452.4	449.8	408.4	405.9
52.5°	7266.7	2926.3	659.2	581.6	615.3	592.0	511.9	498.9	478.2	460.1	439.5
55°	8117.2	3024.6	708.3	679.9	698.0	568.7	573.9	568.7	553.2	506.7	519.6
57.5°	8794.5	3089.2	772.9	760.0	749.7	592.0	599.7	602.3	592.0	571.3	589.4
60°	9725.2	3218.5	840.2	842.7	845.3	643.7	656.6	672.1	669.5	661.8	667.0
62.5°	10296.5	3159.0	915.1	956.5	943.6	749.7	747.1	757.4	757.4	770.4	778.1
65°	10211.1	2939.3	953.9	1057.3	990.1	827.2	827.2	832.4	835.0	860.8	863.4
67°	9699.3	2546.3	933.2	1072.8	990.1	858.3	858.3	863.4	845.3	912.5	891.9
67.5°	9461.5	2430.0	915.1	1059.9	982.3	855.7	855.7	858.3	842.7	907.4	886.7
70°	8228.4	1804.4	788.5	938.4	910.0	832.4	832.4	816.9	804.0	889.3	871.2
72.5°	7023.7	1310.6	633.3	798.8	822.1	801.4	806.6	767.8	731.6	791.0	775.5
75°	5379.6	964.2	493.8	615.3	695.4	749.7	783.3	685.1	638.5	654.0	625.6
77.5°	3001.3	628.2	390.4	455.0	529.9	698.0	752.3	617.8	522.2	504.1	504.1
80°	1018.5	367.1	286.9	338.6	364.5	617.8	703.1	501.5	411.0	392.9	380.0
82.5°	385.2	224.9	196.5	232.7	232.7	488.6	573.9	385.2	310.2	400.7	408.4
85°	175.8	134.4	129.3	134.4	134.4	299.9	405.9	250.8	279.2	240.4	212.0
87.5°	69.8	64.6	59.5	56.9	46.5	51.7	139.6	67.2	126.7	33.6	31.0
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)