

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: P477163

Luminaire Tested: **IFLD-M-SA4B-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

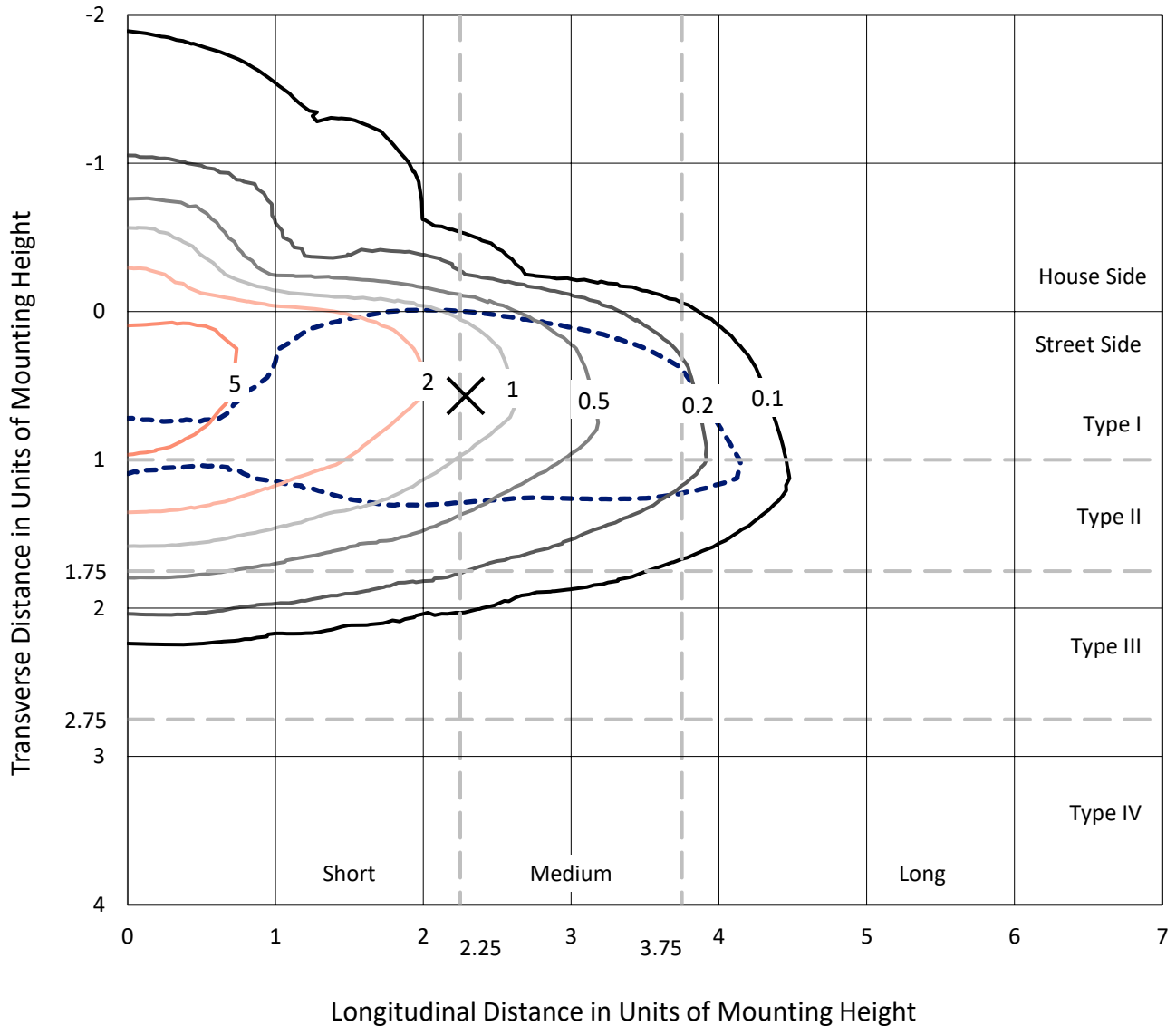
Lumens per Lamp: N/A
Luminaire Lumens: 18250.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 166.1
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

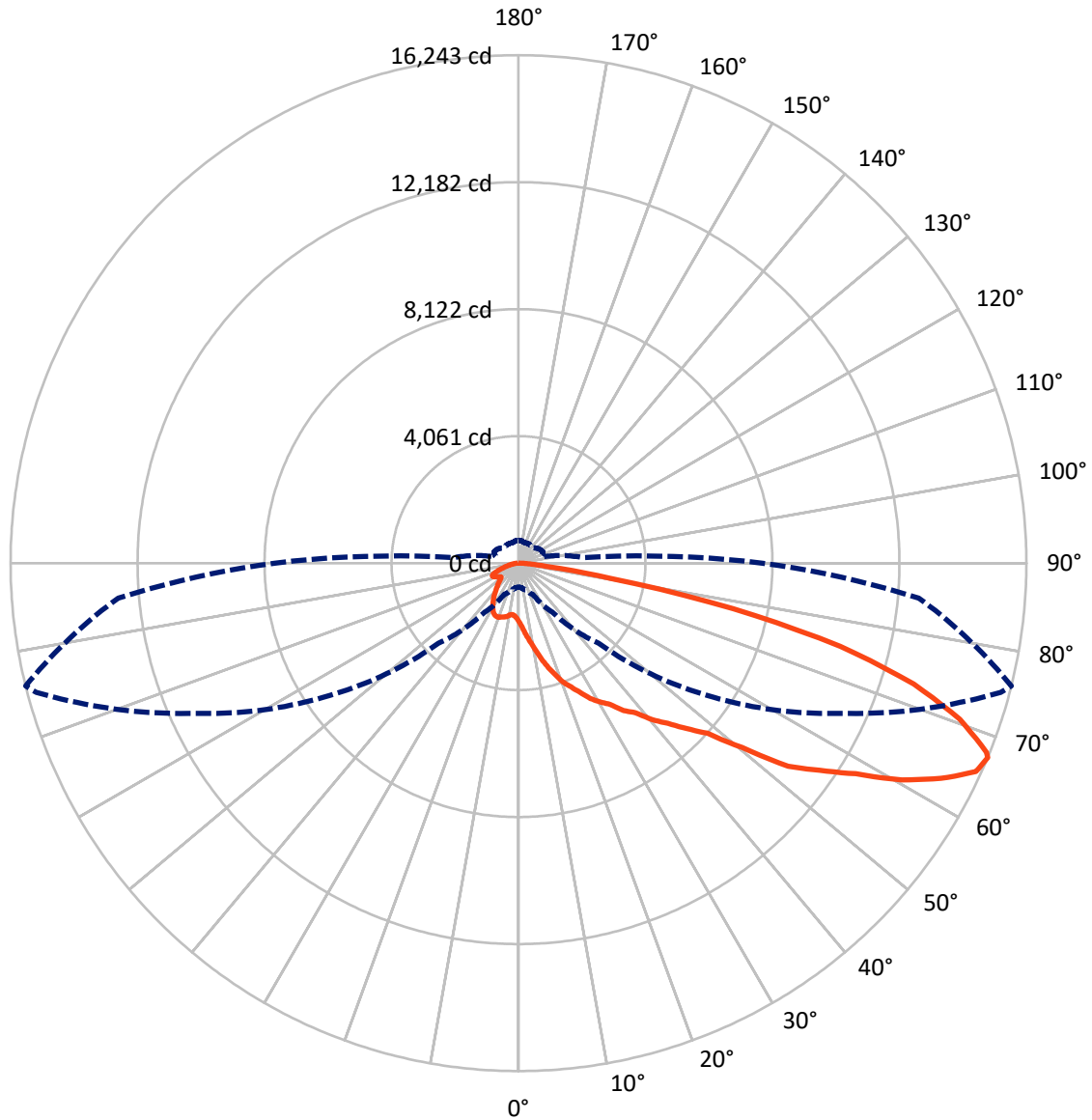
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2596.3	0.0	2596.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	15653.9	0.0	15653.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	18250.2	0.0	18250.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.2
10°-20°	811.4	4.4
20°-30°	1508.5	8.3
30°-40°	2391.3	13.1
40°-50°	3307.3	18.1
50°-60°	4068.2	22.3
60°-70°	3785.7	20.7
70°-80°	1899.6	10.4
80°-90°	261.9	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°	18250.2	100.0
0°-180°	18250.2	100.0

Coefficient of Utilization

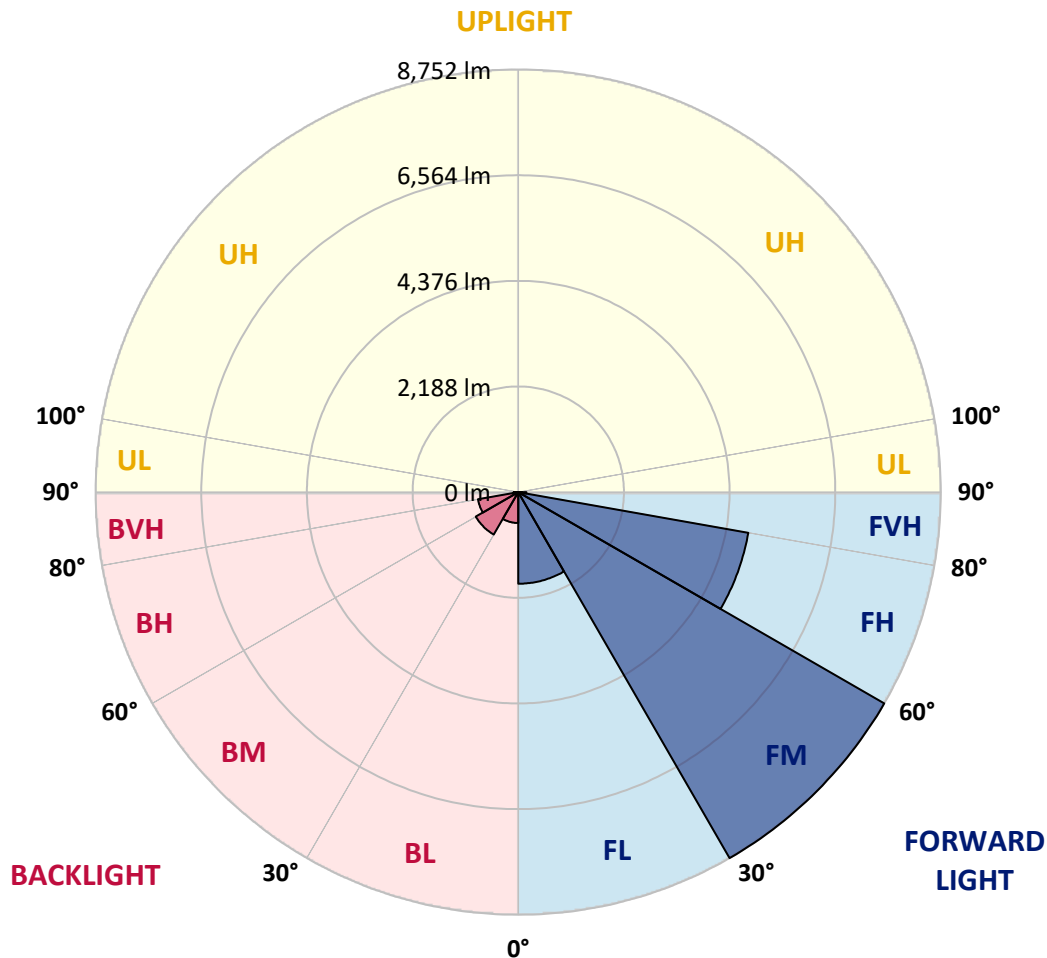


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.8	10.4			
FM (30°-60°)	8752.2	48.0			
FH (60°-80°)	4838.0	26.5			G2/5000
FVH (80°-90°)	166.9	0.9			G2/225
BL (0°-30°)	639.4	3.5	B2/1000		
BM (30°-60°)	1014.6	5.6	B2/2500		
BH (60°-80°)	847.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	95.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6
2.5°	2591.4	2560.2	2529.0	2462.4	2439.6	2377.2	2262.8	2135.9	2031.9	2017.4	1944.6
5°	3215.3	3169.6	3159.2	3121.7	3003.2	2882.6	2695.4	2491.6	2237.8	2256.5	2007.0
7.5°	3683.3	3656.2	3600.1	3564.7	3494.0	3333.9	3140.4	2870.1	2547.7	2485.3	2146.3
10°	4036.8	3999.4	3997.3	3966.1	3928.7	3764.4	3616.7	3252.8	2838.9	2753.6	2316.9
12.5°	4215.7	4209.4	4319.7	4319.7	4305.1	4236.5	3982.8	3650.0	3115.5	3086.4	2514.4
15°	4409.1	4357.1	4452.8	4525.6	4563.0	4598.4	4388.3	4036.8	3469.1	3412.9	2726.6
17.5°	4409.1	4404.9	4500.6	4621.2	4816.7	4862.5	4748.1	4392.5	3762.3	3720.7	2959.5
20°	4334.2	4394.5	4461.1	4623.3	4835.5	5020.6	5053.8	4756.4	4086.7	4053.5	3223.6
22.5°	4683.6	4625.4	4694.0	4756.4	4920.7	5201.5	5293.0	5076.7	4427.8	4301.0	3462.8
25°	5270.1	5230.6	5180.7	5089.2	5157.8	5280.5	5419.9	5313.8	4719.0	4577.6	3693.7
27.5°	5842.1	5844.1	5736.0	5536.3	5388.7	5413.6	5577.9	5521.8	4964.4	4902.0	3851.7
30°	6655.3	6605.3	6484.7	6214.3	5925.3	5688.2	5661.1	5715.2	5276.4	5155.7	4078.4
32.5°	7264.6	7275.0	7104.5	6715.6	6320.4	6127.0	5889.9	5912.8	5473.9	5384.5	4259.4
35°	7757.5	7745.1	7624.4	7302.1	6834.1	6601.2	6280.9	6149.9	5933.6	5792.2	4536.0
37.5°	8290.0	8188.0	7992.5	7628.6	7329.1	7006.7	6694.8	6399.4	6239.3	6068.8	4773.1
40°	8504.2	8504.2	8242.1	8075.7	7720.1	7476.8	7275.0	6728.0	6611.6	6578.3	5076.7
42.5°	8352.3	8445.9	8337.8	8148.5	8002.9	7695.1	7641.1	7069.1	7071.2	7004.7	5440.7
45°	8337.8	8208.8	8119.4	8167.2	8098.6	8082.0	8219.2	7541.2	7553.7	7545.4	5929.4
47.5°	7919.8	7861.5	7994.6	8073.7	8129.8	8387.7	8782.9	8104.9	8194.3	8131.9	6493.0
50°	7503.8	7493.4	7576.6	7863.6	8106.9	8531.2	9319.4	8974.2	9267.4	9263.3	7514.2
52.5°	6364.1	6474.3	6800.8	7408.1	8009.2	8726.7	9725.0	10084.8	10644.2	10796.1	8360.7
55°	5274.3	5216.1	5698.6	6580.4	7582.8	8803.7	10178.4	10752.4	11576.0	11686.2	9230.0
57.5°	4103.4	4211.5	4592.1	5438.6	6701.0	8423.1	10511.1	11411.7	12628.3	12713.6	10238.7
60°	3061.4	3076.0	3494.0	4176.2	5528.0	7564.1	10619.3	12087.6	13834.6	14077.9	11295.2
62.5°	1925.9	2013.2	2331.4	3003.2	4161.6	6362.0	10134.7	12497.3	15099.1	15163.6	12360.1
65°	1037.8	1094.0	1333.1	1755.3	2907.5	4812.6	8849.4	12251.9	15693.9	16076.6	12834.2
67°	767.4	777.8	888.1	1121.0	1944.6	3623.0	7379.0	11363.8	15964.3	16243.0	12853.0
67.5°	719.6	734.2	821.5	1006.6	1724.1	3335.9	6994.3	11047.7	15843.7	16143.2	12707.4
70°	615.6	619.8	640.6	692.6	967.1	2007.0	4762.7	9053.2	14685.2	14972.2	11686.2
72.5°	547.0	551.1	559.5	569.9	655.1	1160.5	2897.1	6967.2	12763.5	13221.1	10082.7
75°	480.4	495.0	499.1	490.8	557.4	755.0	1541.1	5120.4	10411.3	10633.8	7840.7
77.5°	407.6	413.9	422.2	430.5	497.1	563.6	740.4	3456.6	7146.1	7010.9	4240.6
80°	343.2	345.2	351.5	357.7	430.5	430.5	420.1	1867.6	3121.7	2984.5	1433.0
82.5°	245.4	260.0	274.5	291.2	357.7	289.1	274.5	831.9	987.9	940.1	484.6
85°	95.7	116.5	180.9	199.7	226.7	156.0	183.0	359.8	411.8	407.6	180.9
87.5°	16.6	18.7	49.9	77.0	83.2	54.1	87.4	128.9	153.9	166.4	66.6
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°	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6	1867.6
2.5°	1884.3	1819.8	1742.8	1665.9	1616.0	1536.9	1530.7	1482.9	1476.6	1460.0	1468.3
5°	1898.8	1821.9	1665.9	1543.2	1487.0	1441.3	1451.7	1430.9	1424.6	1414.2	1397.6
7.5°	2013.2	1861.4	1628.5	1522.4	1480.8	1460.0	1460.0	1435.0	1416.3	1428.8	1441.3
10°	2088.1	1880.1	1657.6	1551.5	1518.2	1472.5	1489.1	1457.9	1468.3	1443.4	1443.4
12.5°	2208.7	1986.2	1717.9	1595.2	1541.1	1499.5	1516.2	1480.8	1472.5	1474.6	1468.3
15°	2370.9	2056.9	1744.9	1620.1	1582.7	1530.7	1518.2	1487.0	1455.8	1445.4	1457.9
17.5°	2522.8	2144.2	1763.6	1634.7	1574.4	1516.2	1501.6	1462.1	1451.7	1420.5	1395.5
20°	2703.7	2248.2	1788.6	1647.2	1543.2	1485.0	1447.5	1408.0	1372.6	1353.9	1362.2
22.5°	2824.3	2302.3	1801.1	1622.2	1497.4	1443.4	1364.3	1337.3	1287.4	1266.6	1249.9
25°	3021.9	2368.9	1769.9	1553.6	1416.3	1329.0	1258.3	1220.8	1185.5	1158.4	1150.1
27.5°	3071.8	2418.8	1697.1	1437.1	1287.4	1195.9	1135.6	1089.8	1066.9	1025.3	1017.0
30°	3217.4	2368.9	1588.9	1295.7	1164.7	1071.1	1010.8	977.5	923.4	913.0	890.1
32.5°	3311.0	2383.4	1451.7	1158.4	1023.2	940.1	900.5	867.3	852.7	802.8	790.3
35°	3467.0	2333.5	1312.3	1031.6	906.8	842.3	809.0	798.6	750.8	727.9	707.1
37.5°	3566.8	2304.4	1173.0	888.1	779.9	752.9	763.3	719.6	661.4	617.7	603.1
40°	3741.5	2294.0	1014.9	769.5	692.6	686.3	719.6	636.4	530.3	492.9	472.1
42.5°	3993.2	2223.3	892.2	663.4	623.9	651.0	657.2	530.3	470.0	438.8	424.3
45°	4234.4	2237.8	771.6	549.1	542.8	582.3	567.8	449.2	413.9	391.0	403.5
47.5°	4698.2	2310.6	653.0	457.5	488.7	526.2	440.9	401.4	368.1	351.5	353.6
50°	5415.7	2381.3	549.1	418.0	461.7	476.3	378.5	364.0	361.9	328.6	326.5
52.5°	5846.2	2354.3	530.3	467.9	495.0	476.3	411.8	401.4	384.8	370.2	353.6
55°	6530.5	2433.3	569.9	547.0	561.5	457.5	461.7	457.5	445.1	407.6	418.0
57.5°	7075.4	2485.3	621.9	611.5	603.1	476.3	482.5	484.6	476.3	459.6	474.2
60°	7824.1	2589.3	675.9	678.0	680.1	517.9	528.3	540.7	538.7	532.4	536.6
62.5°	8283.7	2541.5	736.2	769.5	759.1	603.1	601.1	609.4	609.4	619.8	626.0
65°	8215.1	2364.7	767.4	850.6	796.6	665.5	665.5	669.7	671.8	692.6	694.6
67°	7803.3	2048.6	750.8	863.1	796.6	690.5	690.5	694.6	680.1	734.2	717.5
67.5°	7611.9	1955.0	736.2	852.7	790.3	688.4	688.4	690.5	678.0	730.0	713.4
70°	6619.9	1451.7	634.3	755.0	732.1	669.7	669.7	657.2	646.8	715.4	700.9
72.5°	5650.7	1054.4	509.5	642.6	661.4	644.7	648.9	617.7	588.6	636.4	623.9
75°	4328.0	775.8	397.2	495.0	559.5	603.1	630.2	551.1	513.7	526.2	503.3
77.5°	2414.6	505.4	314.0	366.0	426.4	561.5	605.2	497.1	420.1	405.6	405.6
80°	819.4	295.3	230.9	272.4	293.2	497.1	565.7	403.5	330.7	316.1	305.7
82.5°	309.9	180.9	158.1	187.2	187.2	393.1	461.7	309.9	249.6	322.4	328.6
85°	141.4	108.1	104.0	108.1	108.1	241.3	326.5	201.7	224.6	193.4	170.5
87.5°	56.2	52.0	47.8	45.8	37.4	41.6	112.3	54.1	101.9	27.0	25.0
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)