

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: P482190

Luminaire Tested: **IFLD-S-SA6C-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

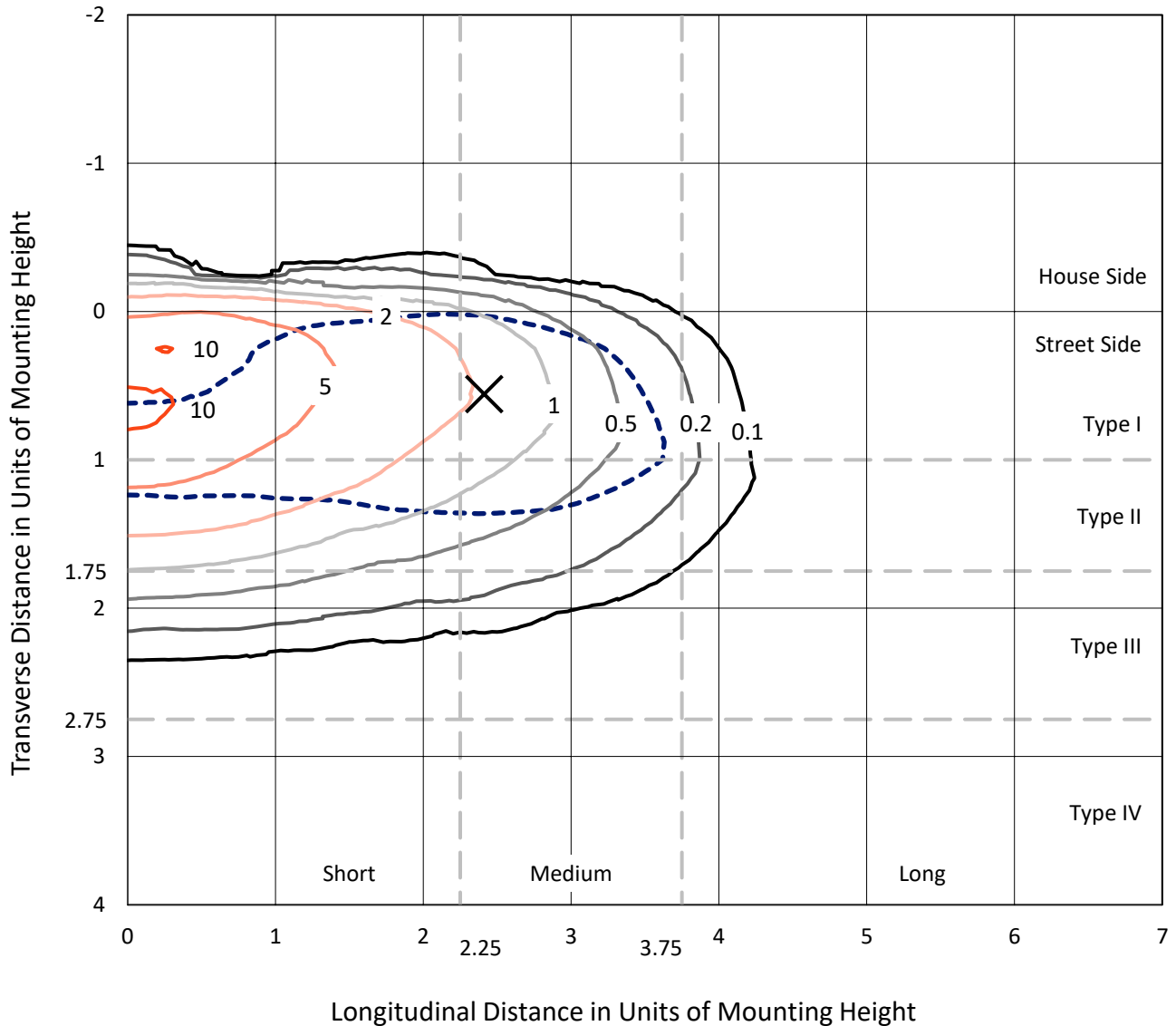
Lumens per Lamp: N/A
Luminaire Lumens: 24014.5 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 321.5
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

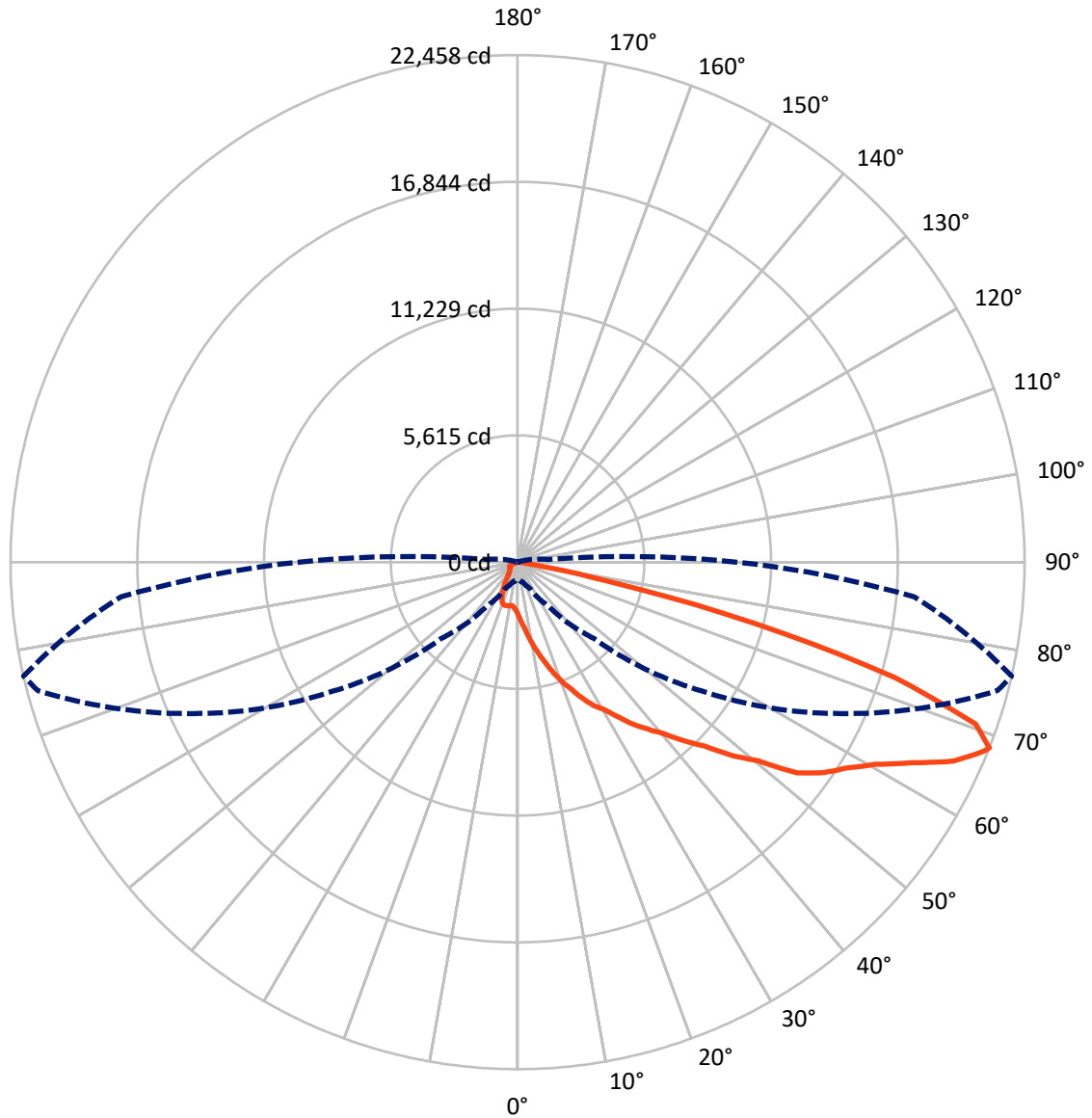
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.0	0.0	1089.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	22925.5	0.0	22925.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	24014.5	0.0	24014.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	1.1
10°-20°	990.7	4.1
20°-30°	1920.1	8.0
30°-40°	3347.4	13.9
40°-50°	4902.5	20.4
50°-60°	5759.7	24.0
60°-70°	4863.6	20.3
70°-80°	1885.2	7.9
80°-90°	76.7	0.3
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°	24014.5	100.0
0°-180°	24014.5	100.0

Coefficient of Utilization



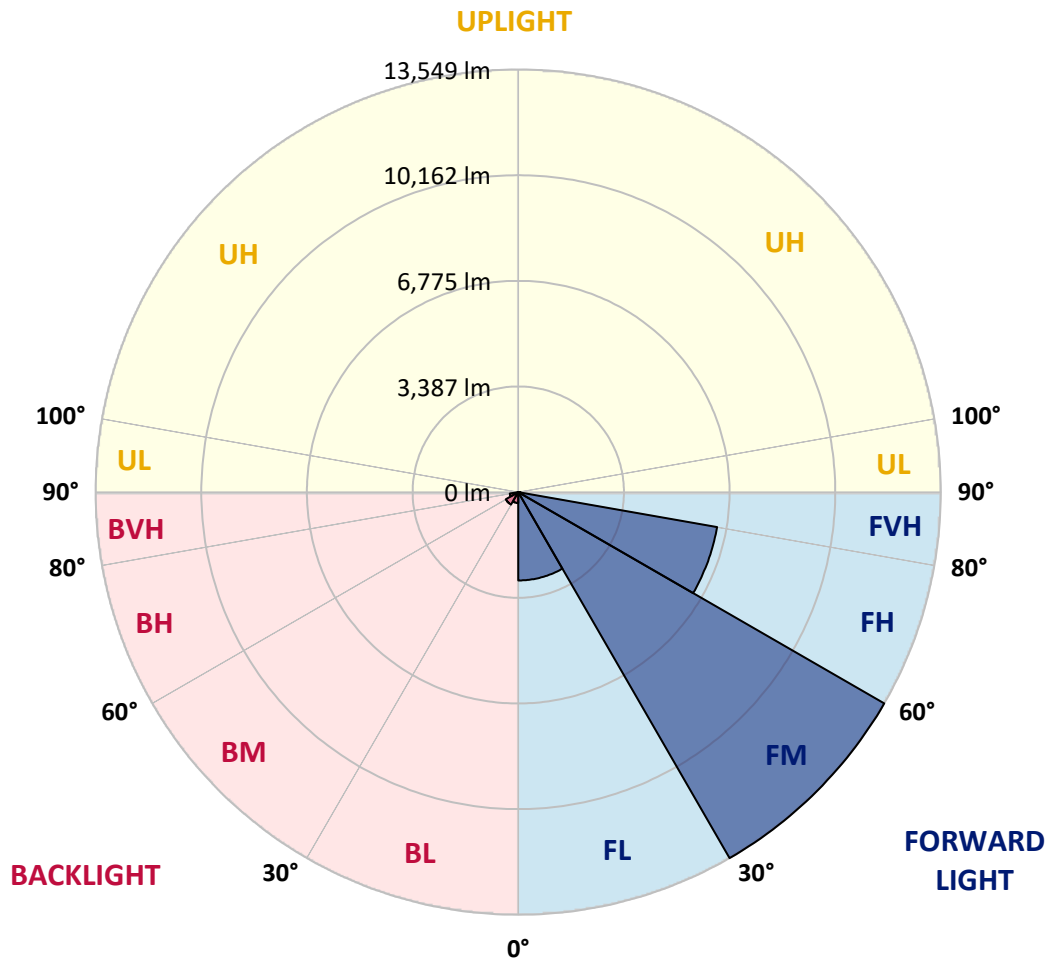
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2831.5	11.8			
FM (30°-60°)	13549.4	56.4			
FH (60°-80°)	6473.8	27.0			G3/7500
FVH (80°-90°)	70.7	0.3			G1/100
BL (0°-30°)	348.0	1.4	B1/500		
BM (30°-60°)	460.2	1.9	B1/1000		
BH (60°-80°)	275.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4
2.5°	3493.8	3427.6	3358.2	3338.3	3209.3	3063.7	2928.0	2795.7	2574.0	2577.3	2425.1
5°	4502.9	4420.2	4363.9	4350.7	4148.9	3897.4	3692.3	3318.5	2951.2	2868.5	2590.6
7.5°	5333.3	5306.9	5224.2	5154.7	5005.8	4698.1	4456.6	3920.6	3361.5	3268.8	2792.4
10°	5836.2	5875.9	5912.3	5823.0	5707.2	5485.5	5154.7	4575.7	3828.0	3712.2	3053.8
12.5°	6372.2	6306.0	6329.2	6402.0	6249.8	6200.2	5789.9	5250.6	4373.9	4152.2	3384.6
15°	6511.2	6537.6	6593.9	6805.6	6908.2	6765.9	6411.9	5796.5	4939.6	4631.9	3692.3
17.5°	6603.8	6590.6	6660.1	6977.7	7133.2	7268.8	7047.2	6405.3	5432.6	5158.0	4076.1
20°	6719.6	6646.8	6799.0	7000.8	7361.5	7646.0	7636.1	7017.4	5948.7	5657.6	4456.6
22.5°	7149.7	7093.5	7215.9	7235.7	7487.2	7884.2	7980.2	7517.0	6478.1	6120.8	4866.8
25°	7943.8	8046.3	7900.8	7775.0	7851.1	8112.5	8182.0	7960.3	7010.8	6683.2	5277.1
27.5°	9105.1	9091.8	8804.0	8641.9	8459.9	8426.8	8476.4	8373.9	7430.9	7196.0	5614.6
30°	10352.4	10243.2	9978.5	9588.1	9187.8	8939.6	8870.2	8764.3	7923.9	7583.1	5948.7
32.5°	11344.9	11404.5	11110.0	10600.5	9935.5	9601.3	9267.2	9151.4	8466.5	8165.4	6332.5
35°	12258.1	12178.7	11943.8	11513.7	10918.1	10378.8	9856.1	9608.0	9118.3	8820.5	6756.0
37.5°	12933.0	13032.3	12585.6	12175.4	11583.1	11136.5	10623.7	10081.1	9789.9	9392.9	7272.1
40°	13571.6	13416.1	13115.0	12737.8	12188.6	11847.8	11510.4	10663.4	10504.6	9991.7	7854.4
42.5°	13459.1	13469.0	13303.6	12999.2	12602.2	12407.0	12291.2	11371.4	11153.0	10825.5	8423.5
45°	12999.2	13038.9	13095.1	12946.3	12979.3	12784.1	13095.1	12185.3	11970.2	11622.9	9078.6
47.5°	12493.0	12559.2	12545.9	12817.2	13124.9	13191.1	13968.6	13088.5	12995.9	12804.0	9985.1
50°	11652.6	11679.1	11933.9	12426.8	12847.0	13538.5	14623.7	14074.5	14216.7	13839.6	11063.7
52.5°	10216.7	10312.7	10967.8	11672.5	12519.5	13713.8	15067.0	15540.1	15900.8	15513.7	12099.3
55°	8400.3	8532.7	9177.9	10498.0	11738.6	13449.2	15470.7	16314.3	17045.5	16459.9	12727.9
57.5°	6759.3	6772.6	7351.5	8714.7	10630.3	12929.7	15675.8	16691.5	17674.1	17204.3	13495.5
60°	5151.4	5098.4	5617.9	6799.0	8764.3	11652.6	15163.0	16883.4	18458.3	18187.0	14418.6
62.5°	3315.1	3232.4	3798.2	4949.6	6845.3	9525.2	14137.3	16886.7	19682.4	19579.9	15963.6
65°	1641.0	1584.8	2071.1	3033.9	4737.8	7285.4	12675.0	16823.9	21177.9	21244.0	17469.0
67.5°	866.8	886.7	1042.2	1538.5	2732.8	5148.1	10471.5	16086.1	21942.1	22312.7	17833.0
68°	797.4	804.0	926.4	1280.4	2372.2	4774.2	9948.7	15871.0	22001.7	22458.3	17631.1
70°	648.5	658.4	701.4	804.0	1283.7	3106.7	7675.8	14044.7	21105.1	21522.0	15960.3
72.5°	516.1	545.9	572.4	615.4	754.3	1631.1	4774.2	10944.6	17435.9	17482.2	12423.5
75°	393.7	416.9	469.8	506.2	588.9	896.6	2273.0	6673.3	11440.9	10878.4	7318.5
77.5°	304.4	324.2	347.4	397.0	493.0	605.5	694.8	2832.1	4860.2	4000.0	2067.8
80°	182.0	195.2	271.3	311.0	430.1	410.3	274.6	787.4	985.9	777.5	377.2
82.5°	105.9	115.8	155.5	238.2	301.1	221.7	162.1	244.8	241.5	211.7	125.7
85°	3.3	6.6	86.0	142.3	105.9	59.6	99.3	102.6	86.0	79.4	56.2
87.5°	0.0	3.3	23.2	19.9	23.2	13.2	19.9	26.5	33.1	29.8	23.2
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°	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4
2.5°	2322.6	2249.8	2087.7	1965.3	1832.9	1753.5	1674.1	1624.5	1598.0	1581.5	1594.7
5°	2382.1	2229.9	1968.6	1737.0	1584.8	1482.2	1379.7	1326.7	1277.1	1250.6	1267.2
7.5°	2514.5	2286.2	1852.8	1601.3	1422.7	1263.9	1134.8	1032.3	972.7	919.8	929.7
10°	2676.6	2319.3	1856.1	1521.9	1263.9	1012.4	830.4	701.4	628.6	582.3	579.0
12.5°	2842.0	2448.3	1869.3	1442.5	1068.7	761.0	545.9	450.0	406.9	383.8	383.8
15°	3093.5	2564.1	1836.2	1296.9	810.6	496.3	373.9	340.8	324.2	304.4	307.7
17.5°	3311.8	2749.4	1819.7	1078.6	555.8	357.3	311.0	274.6	258.1	238.2	238.2
20°	3606.3	2865.2	1730.4	833.7	383.8	297.8	251.4	218.4	191.9	175.4	178.7
22.5°	3874.3	2954.5	1571.5	569.1	294.5	234.9	185.3	152.2	129.0	109.2	112.5
25°	4165.4	3043.8	1340.0	350.7	208.4	145.6	99.3	72.8	49.6	36.4	36.4
27.5°	4373.9	3070.3	1038.9	208.4	125.7	66.2	23.2	3.3	0.0	0.0	0.0
30°	4585.6	3080.2	718.0	112.5	49.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4827.1	3076.9	450.0	59.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	5012.4	3020.7	215.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5293.6	2938.0	66.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5614.6	2789.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5902.4	2636.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6230.0	2448.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6805.6	2368.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7556.7	2306.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8019.9	2120.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8261.4	1928.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8618.7	1836.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9148.1	1842.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9975.2	1935.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10431.8	1842.8	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10044.7	1475.6	62.9	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	9710.5	1356.5	62.9	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	8026.5	883.4	59.6	16.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5846.2	489.7	49.6	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	3401.2	244.8	36.4	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	886.7	122.4	29.8	16.5	9.9	3.3	0.0	0.0	0.0	0.0	0.0
80°	175.4	79.4	26.5	19.9	13.2	6.6	0.0	0.0	0.0	0.0	0.0
82.5°	82.7	56.2	26.5	19.9	16.5	9.9	3.3	0.0	0.0	0.0	0.0
85°	43.0	26.5	26.5	19.9	19.9	13.2	6.6	0.0	0.0	0.0	0.0
87.5°	19.9	9.9	9.9	9.9	9.9	6.6	3.3	0.0	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)