

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: P482093

Luminaire Tested: **IFLD-S-SA2D-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482093
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

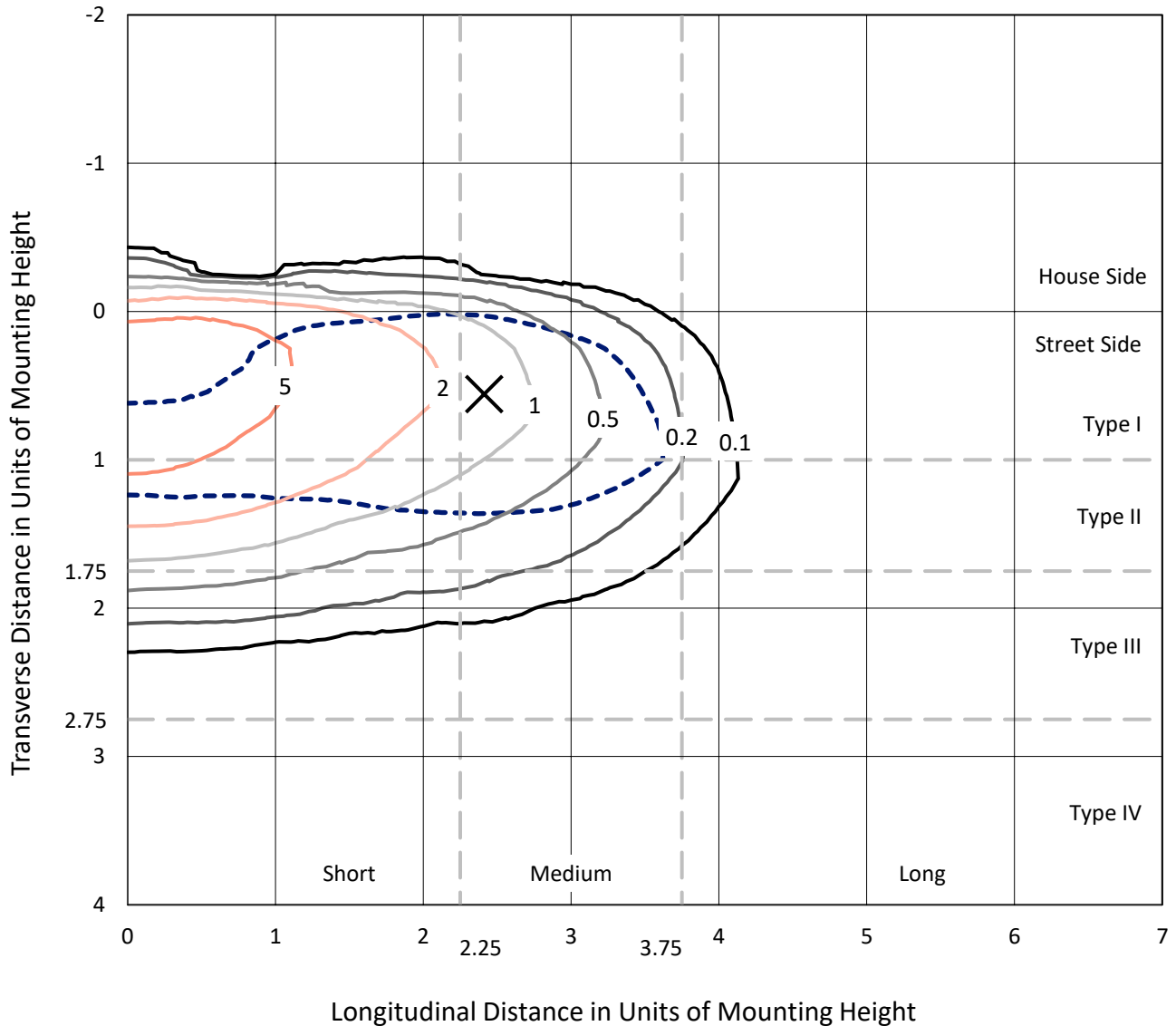
Lumens per Lamp: N/A
Luminaire Lumens: 12577.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

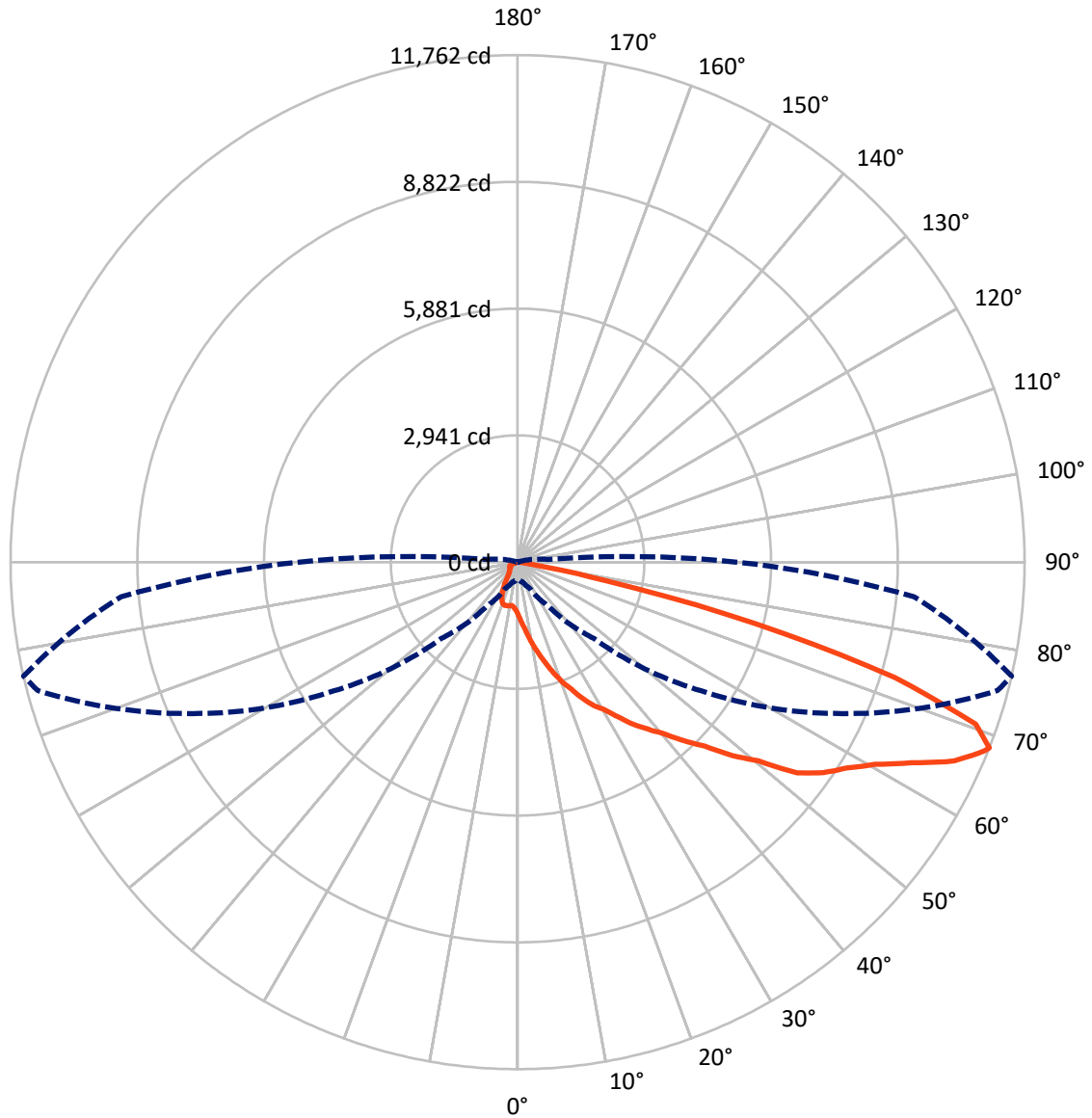
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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	570.4	0.0	570.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	12007.1	0.0	12007.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	12577.5	0.0	12577.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.1
10°-20°	518.9	4.1
20°-30°	1005.6	8.0
30°-40°	1753.2	13.9
40°-50°	2567.7	20.4
50°-60°	3016.6	24.0
60°-70°	2547.3	20.3
70°-80°	987.4	7.9
80°-90°	40.2	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°	12577.5	100.0
0°-180°	12577.5	100.0

Coefficient of Utilization



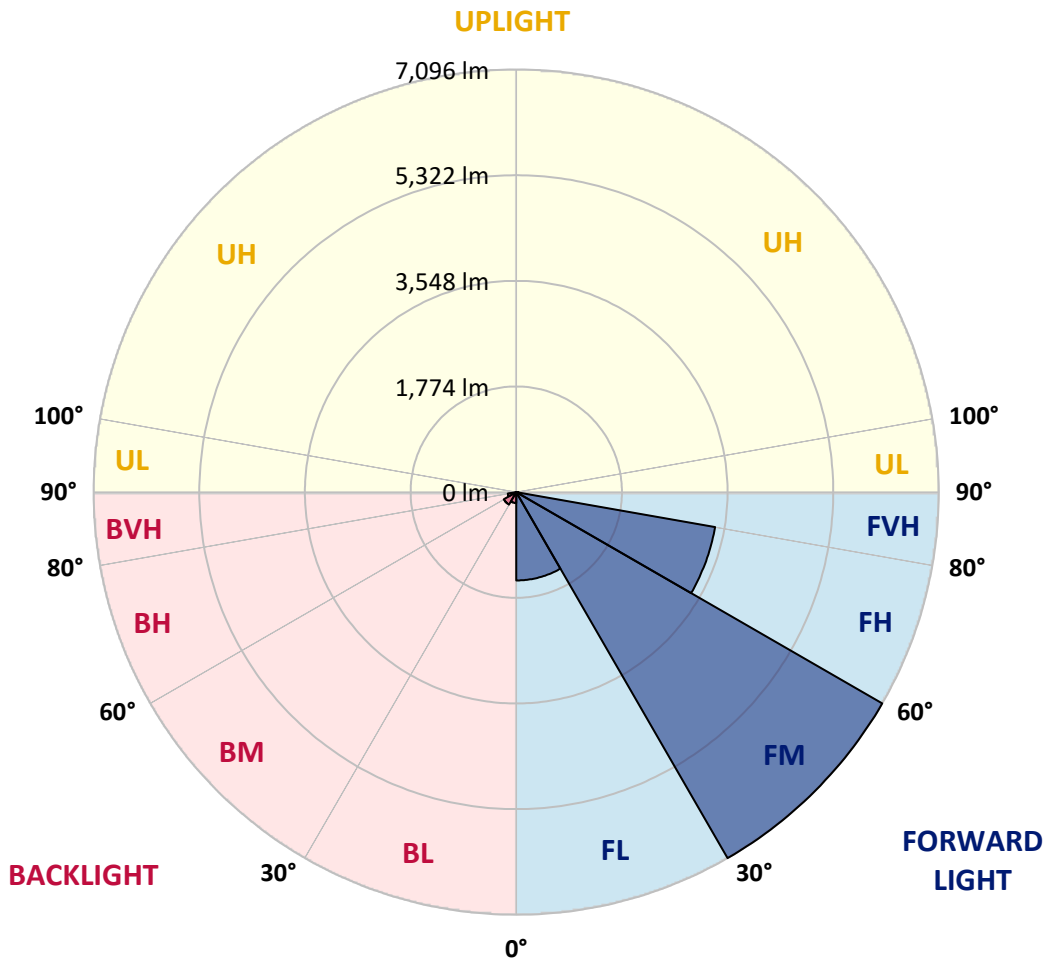
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.0	11.8			
FM (30°-60°)	7096.4	56.4			
FH (60°-80°)	3390.6	27.0			G2/5000
FVH (80°-90°)	37.0	0.3			G1/100
BL (0°-30°)	182.2	1.4	B1/500		
BM (30°-60°)	241.0	1.9	B1/1000		
BH (60°-80°)	144.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1829.9	1795.2	1758.8	1748.4	1680.8	1604.6	1533.6	1464.2	1348.1	1349.9	1270.2
5°	2358.4	2315.1	2285.6	2278.7	2173.0	2041.3	1933.8	1738.0	1545.7	1502.4	1356.8
7.5°	2793.3	2779.5	2736.1	2699.7	2621.8	2460.6	2334.1	2053.4	1760.6	1712.0	1462.5
10°	3056.7	3077.5	3096.6	3049.8	2989.1	2873.0	2699.7	2396.5	2004.9	1944.2	1599.4
12.5°	3337.4	3302.8	3314.9	3353.0	3273.3	3247.3	3032.4	2750.0	2290.8	2174.7	1772.7
15°	3410.2	3424.1	3453.5	3564.4	3618.1	3543.6	3358.2	3035.9	2587.1	2426.0	1933.8
17.5°	3458.7	3451.8	3488.2	3654.5	3736.0	3807.0	3690.9	3354.7	2845.3	2701.5	2134.8
20°	3519.4	3481.2	3561.0	3666.7	3855.5	4004.6	3999.4	3675.3	3115.6	2963.1	2334.1
22.5°	3744.6	3715.2	3779.3	3789.7	3921.4	4129.3	4179.6	3937.0	3392.9	3205.7	2549.0
25°	4160.5	4214.2	4138.0	4072.1	4112.0	4248.9	4285.3	4169.2	3671.9	3500.3	2763.9
27.5°	4768.7	4761.8	4611.0	4526.1	4430.8	4413.5	4439.5	4385.8	3891.9	3768.9	2940.6
30°	5422.0	5364.8	5226.2	5021.7	4812.1	4682.1	4645.7	4590.3	4150.1	3971.6	3115.6
32.5°	5941.9	5973.0	5818.8	5552.0	5203.7	5028.7	4853.6	4793.0	4434.3	4276.6	3316.6
35°	6420.1	6378.5	6255.5	6030.2	5718.3	5435.9	5162.1	5032.1	4775.7	4619.7	3538.4
37.5°	6773.6	6825.6	6591.7	6376.8	6066.6	5832.7	5564.1	5279.9	5127.4	4919.5	3808.7
40°	7108.0	7026.6	6868.9	6671.4	6383.7	6205.2	6028.5	5584.9	5501.7	5233.1	4113.7
42.5°	7049.1	7054.3	6967.7	6808.3	6600.3	6498.1	6437.4	5955.7	5841.4	5669.8	4411.8
45°	6808.3	6829.1	6858.5	6780.5	6797.9	6695.6	6858.5	6382.0	6269.4	6087.4	4754.9
47.5°	6543.1	6577.8	6570.9	6713.0	6874.1	6908.8	7316.0	6855.1	6806.5	6706.0	5229.7
50°	6103.0	6116.9	6250.3	6508.5	6728.6	7090.7	7659.1	7371.4	7445.9	7248.4	5794.6
52.5°	5351.0	5401.2	5744.3	6113.4	6557.0	7182.6	7891.3	8139.1	8328.0	8125.2	6336.9
55°	4399.6	4469.0	4806.9	5498.3	6148.1	7043.9	8102.7	8544.6	8927.5	8620.8	6666.2
57.5°	3540.2	3547.1	3850.3	4564.3	5567.6	6771.9	8210.1	8742.1	9256.8	9010.7	7068.2
60°	2698.0	2670.3	2942.3	3561.0	4590.3	6103.0	7941.5	8842.6	9667.4	9525.3	7551.7
62.5°	1736.3	1693.0	1989.3	2592.3	3585.2	4988.8	7404.4	8844.3	10308.6	10254.9	8360.9
65°	859.5	830.0	1084.7	1589.0	2481.4	3815.7	6638.5	8811.4	11091.8	11126.5	9149.3
67.5°	454.0	464.4	545.8	805.8	1431.3	2696.3	5484.4	8425.0	11492.1	11686.2	9339.9
68°	417.6	421.1	485.2	670.6	1242.4	2500.5	5210.6	8312.4	11523.3	11762.4	9234.2
70°	339.6	344.8	367.4	421.1	672.3	1627.1	4020.2	7355.8	11053.7	11272.0	8359.1
72.5°	270.3	285.9	299.8	322.3	395.1	854.3	2500.5	5732.2	9132.0	9156.2	6506.8
75°	206.2	218.3	246.1	265.1	308.4	469.6	1190.5	3495.1	5992.1	5697.5	3833.0
77.5°	159.4	169.8	181.9	207.9	258.2	317.1	363.9	1483.3	2545.5	2095.0	1083.0
80°	95.3	102.2	142.1	162.9	225.3	214.9	143.8	412.4	516.4	407.2	197.5
82.5°	55.5	60.6	81.4	124.8	157.7	116.1	84.9	128.2	126.5	110.9	65.8
85°	1.7	3.5	45.1	74.5	55.5	31.2	52.0	53.7	45.1	41.6	29.5
87.5°	0.0	1.7	12.1	10.4	12.1	6.9	10.4	13.9	17.3	15.6	12.1
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°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1216.4	1178.3	1093.4	1029.3	960.0	918.4	876.8	850.8	837.0	828.3	835.2
5°	1247.6	1167.9	1031.0	909.7	830.0	776.3	722.6	694.9	668.9	655.0	663.7
7.5°	1316.9	1197.4	970.4	838.7	745.1	661.9	594.4	540.6	509.5	481.7	486.9
10°	1401.9	1214.7	972.1	797.1	661.9	530.2	434.9	367.4	329.2	305.0	303.2
12.5°	1488.5	1282.3	979.0	755.5	559.7	398.5	285.9	235.7	213.1	201.0	201.0
15°	1620.2	1342.9	961.7	679.3	424.5	259.9	195.8	178.5	169.8	159.4	161.2
17.5°	1734.6	1440.0	953.1	564.9	291.1	187.1	162.9	143.8	135.2	124.8	124.8
20°	1888.8	1500.6	906.3	436.7	201.0	156.0	131.7	114.4	100.5	91.8	93.6
22.5°	2029.1	1547.4	823.1	298.0	154.2	123.0	97.0	79.7	67.6	57.2	58.9
25°	2181.6	1594.2	701.8	183.7	109.2	76.2	52.0	38.1	26.0	19.1	19.1
27.5°	2290.8	1608.1	544.1	109.2	65.8	34.7	12.1	1.7	0.0	0.0	0.0
30°	2401.7	1613.3	376.0	58.9	26.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2528.2	1611.5	235.7	31.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	2625.2	1582.1	112.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2772.5	1538.7	34.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2940.6	1460.8	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3091.4	1381.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3262.9	1282.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3564.4	1240.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3957.8	1207.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4200.4	1110.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4326.9	1010.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4514.0	961.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4791.3	965.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5224.5	1013.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5463.6	965.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5260.9	772.8	32.9	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	5085.8	710.5	32.9	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	4203.8	462.7	31.2	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3061.9	256.5	26.0	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1781.3	128.2	19.1	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	464.4	64.1	15.6	8.7	5.2	1.7	0.0	0.0	0.0	0.0	0.0
80°	91.8	41.6	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	43.3	29.5	13.9	10.4	8.7	5.2	1.7	0.0	0.0	0.0	0.0
85°	22.5	13.9	13.9	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	5.2	5.2	5.2	3.5	1.7	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)