

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: P482229

Luminaire Tested: **IFLD-S-SA6C-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482229
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

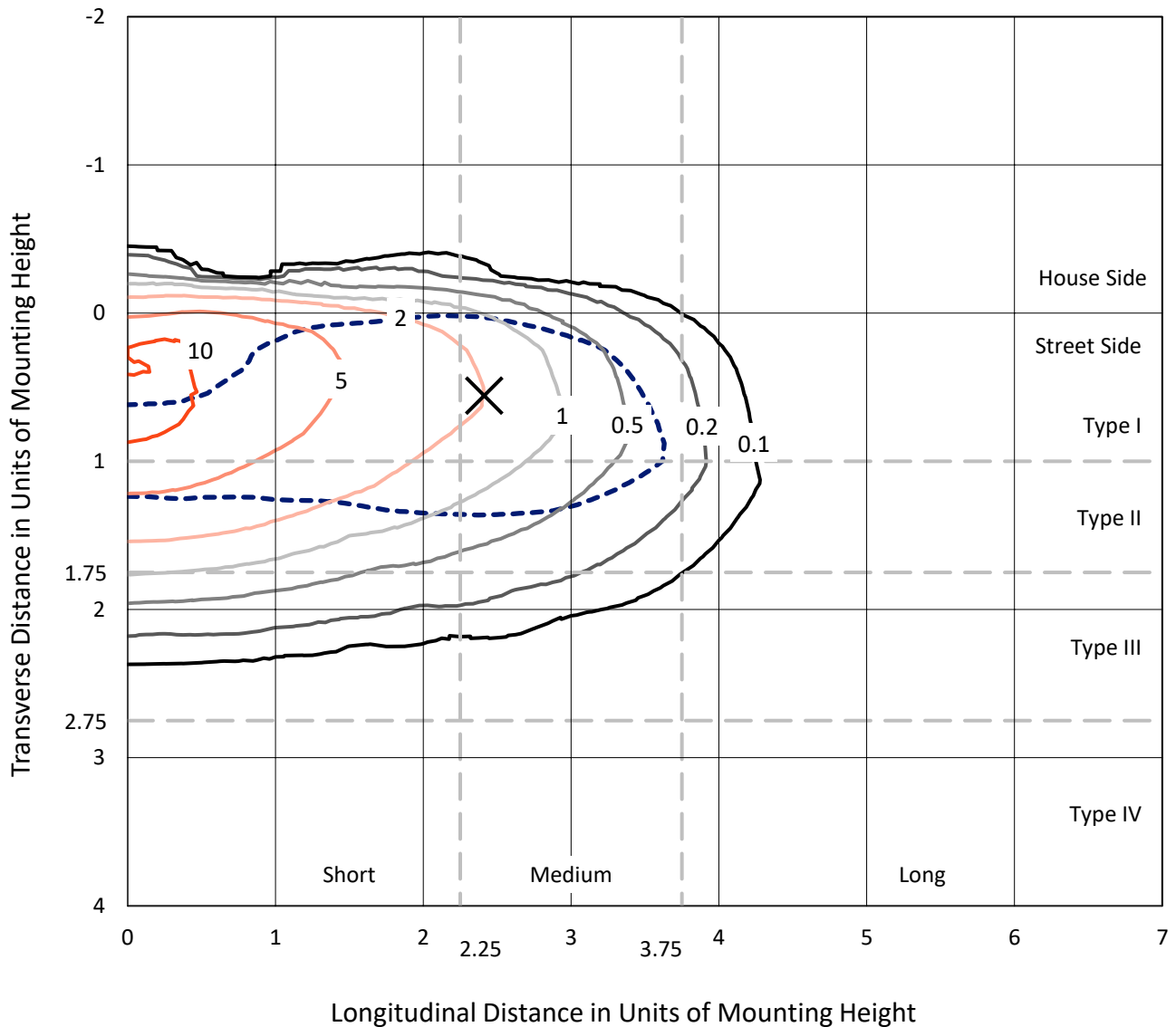
Lumens per Lamp: N/A
Luminaire Lumens: 25958.3 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

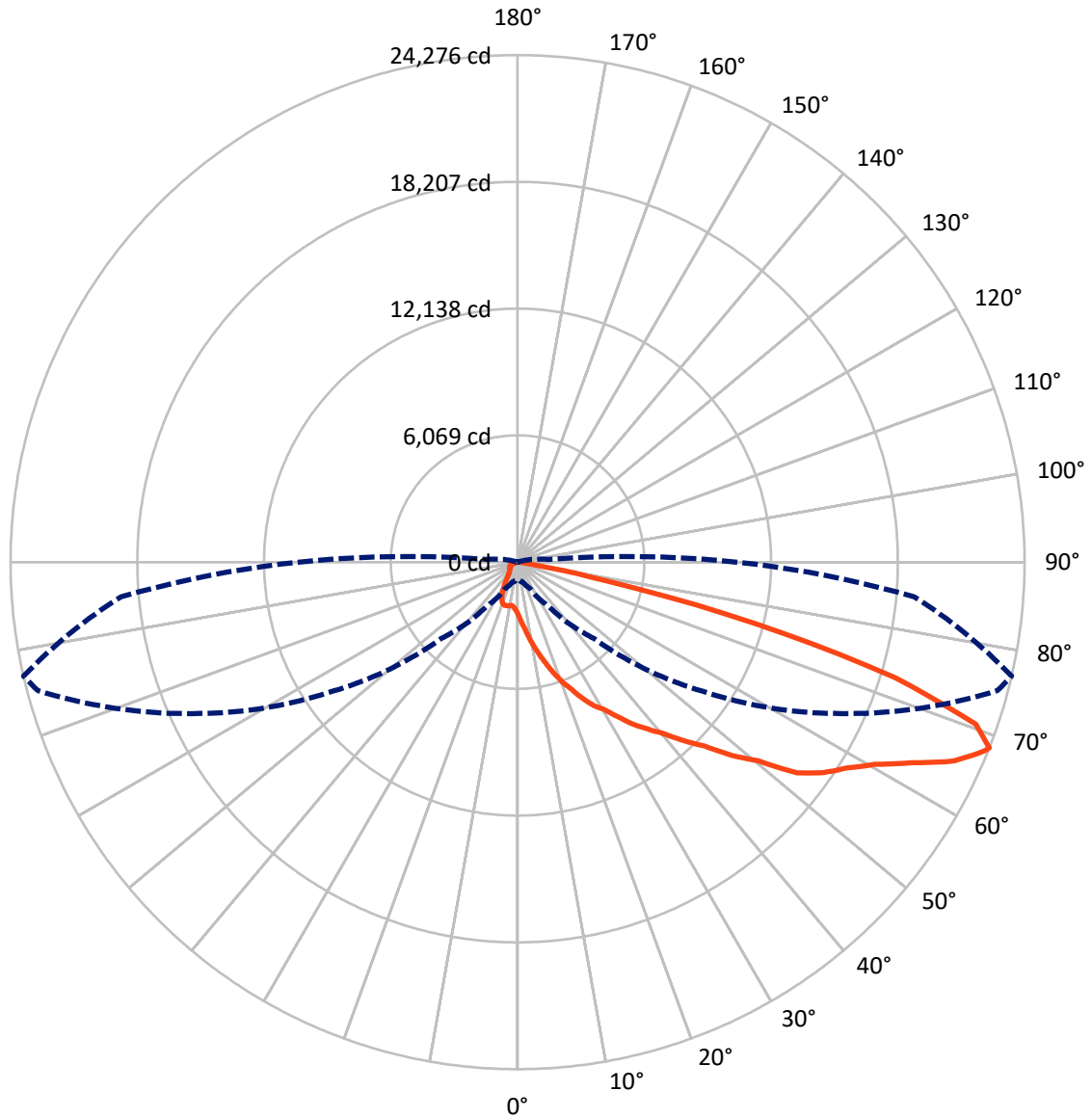
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	1177.2	0.0	1177.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	24781.1	0.0	24781.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	25958.3	0.0	25958.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.4	1.1
10°-20°	1070.9	4.1
20°-30°	2075.5	8.0
30°-40°	3618.3	13.9
40°-50°	5299.3	20.4
50°-60°	6225.9	24.0
60°-70°	5257.2	20.3
70°-80°	2037.8	7.9
80°-90°	82.9	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°	25958.3	100.0
0°-180°	25958.3	100.0

Coefficient of Utilization



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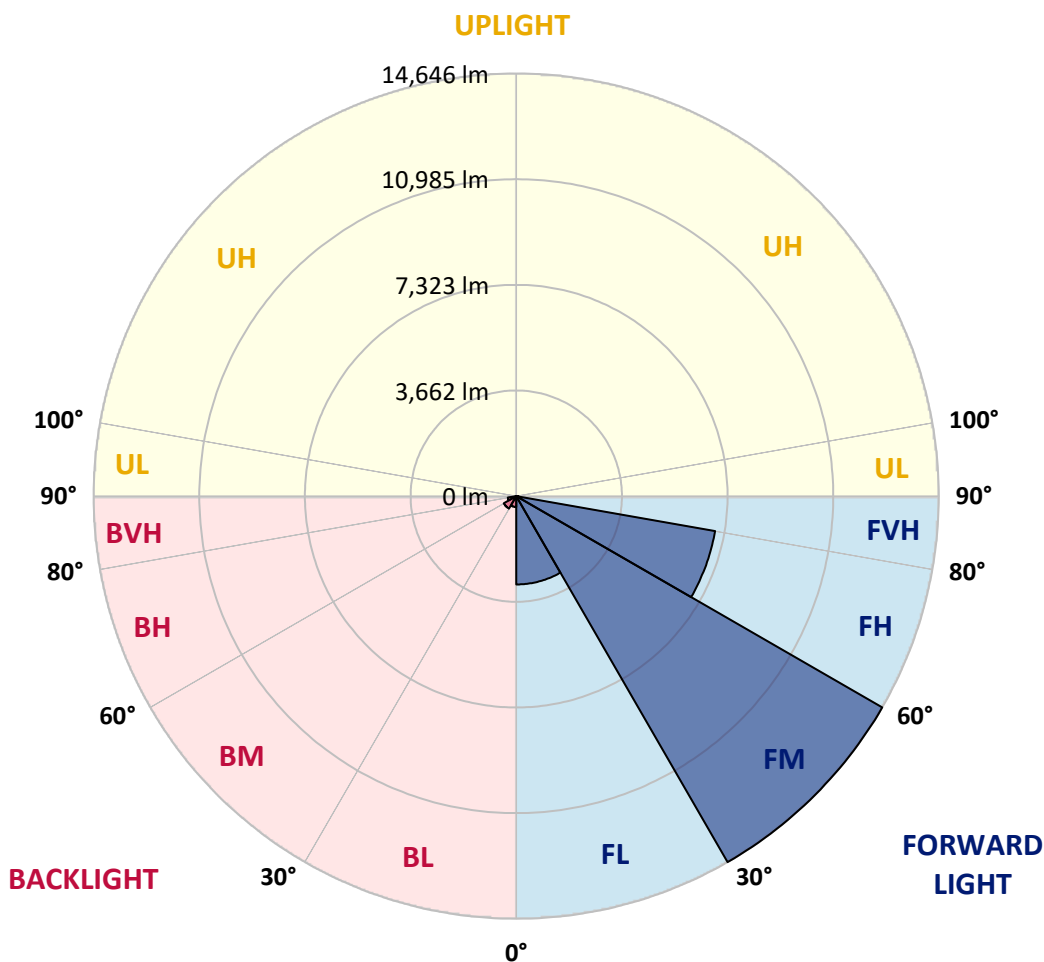
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3060.7	11.8			
FM (30°-60°)	14646.1	56.4			
FH (60°-80°)	6997.8	27.0			G3/7500
FVH (80°-90°)	76.5	0.3			G1/100
BL (0°-30°)	376.1	1.4	B1/500		
BM (30°-60°)	497.4	1.9	B1/1000		
BH (60°-80°)	297.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	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°	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5
2.5°	3776.6	3705.1	3630.0	3608.5	3469.0	3311.7	3165.0	3022.0	2782.4	2786.0	2621.4
5°	4867.4	4778.0	4717.2	4702.9	4484.7	4212.9	3991.2	3587.1	3190.1	3100.7	2800.3
7.5°	5765.0	5736.4	5647.0	5571.9	5411.0	5078.4	4817.3	4237.9	3633.5	3533.4	3018.4
10°	6308.6	6351.5	6390.9	6294.3	6169.2	5929.5	5571.9	4946.1	4137.8	4012.6	3300.9
12.5°	6888.0	6816.5	6841.5	6920.2	6755.7	6702.0	6258.6	5675.6	4727.9	4488.3	3658.6
15°	7038.2	7066.8	7127.6	7356.5	7467.4	7313.6	6930.9	6265.7	5339.4	5006.9	3991.2
17.5°	7138.3	7124.0	7199.1	7542.5	7710.6	7857.2	7617.6	6923.8	5872.3	5575.5	4406.0
20°	7263.5	7184.8	7349.3	7567.5	7957.3	8264.9	8254.2	7585.4	6430.2	6115.5	4817.3
22.5°	7728.4	7667.6	7800.0	7821.4	8093.2	8522.4	8626.1	8125.4	7002.4	6616.2	5260.8
25°	8586.7	8697.6	8540.3	8404.4	8486.6	8769.1	8844.2	8604.6	7578.2	7224.2	5704.2
27.5°	9842.0	9827.7	9516.6	9341.4	9144.7	9108.9	9162.5	9051.7	8032.4	7778.5	6069.0
30°	11190.3	11072.3	10786.2	10364.2	9931.4	9663.2	9588.1	9473.7	8565.3	8196.9	6430.2
32.5°	12263.2	12327.6	12009.3	11458.5	10739.7	10378.5	10017.3	9892.1	9151.8	8826.4	6845.1
35°	13250.3	13164.4	12910.5	12445.6	11801.9	11218.9	10653.9	10385.6	9856.3	9534.5	7302.8
37.5°	13979.8	14087.1	13604.3	13160.9	12520.7	12037.9	11483.6	10897.1	10582.3	10153.2	7860.8
40°	14670.1	14502.0	14176.5	13768.8	13175.2	12806.8	12442.0	11526.5	11354.8	10800.5	8490.2
42.5°	14548.5	14559.2	14380.4	14051.4	13622.2	13411.2	13286.0	12291.8	12055.8	11701.7	9105.3
45°	14051.4	14094.3	14155.1	13994.1	14029.9	13818.9	14155.1	13171.6	12939.1	12563.6	9813.4
47.5°	13504.2	13575.7	13561.4	13854.7	14187.3	14258.8	15099.2	14147.9	14047.8	13840.4	10793.3
50°	12595.8	12624.4	12899.8	13432.7	13886.9	14634.3	15807.3	15213.7	15367.5	14959.8	11959.2
52.5°	11043.7	11147.4	11855.5	12617.3	13532.8	14823.9	16286.6	16798.0	17187.8	16769.4	13078.6
55°	9080.3	9223.3	9920.7	11347.7	12688.8	14537.7	16722.9	17634.8	18425.2	17792.2	13758.1
57.5°	7306.4	7320.7	7946.6	9420.0	11490.7	13976.3	16944.6	18042.5	19104.7	18596.9	14587.8
60°	5568.3	5511.1	6072.6	7349.3	9473.7	12595.8	16390.3	18250.0	19952.3	19659.0	15585.6
62.5°	3583.5	3494.1	4105.6	5350.2	7399.4	10296.2	15281.6	18253.5	21275.5	21164.7	17255.8
65°	1773.9	1713.1	2238.8	3279.5	5121.3	7875.1	13700.9	18185.6	22892.0	22963.6	18883.0
67.5°	937.0	958.5	1126.5	1663.0	2954.0	5564.8	11319.1	17388.1	23718.2	24118.7	19276.4
68°	861.9	869.0	1001.4	1384.0	2564.2	5160.6	10754.0	17155.6	23782.5	24276.1	19058.2
70°	701.0	711.7	758.2	869.0	1387.6	3358.2	8297.1	15181.5	22813.4	23264.0	17252.2
72.5°	557.9	590.1	618.7	665.2	815.4	1763.1	5160.6	11830.5	18847.2	18897.3	13429.1
75°	425.6	450.6	507.8	547.2	636.6	969.2	2456.9	7213.4	12366.9	11758.9	7910.8
77.5°	329.0	350.5	375.5	429.2	532.9	654.5	751.0	3061.3	5253.6	4323.8	2235.2
80°	196.7	211.0	293.3	336.2	464.9	443.5	296.8	851.2	1065.7	840.4	407.7
82.5°	114.4	125.2	168.1	257.5	325.4	239.6	175.2	264.6	261.1	228.9	135.9
85°	3.6	7.2	93.0	153.8	114.4	64.4	107.3	110.9	93.0	85.8	60.8
87.5°	0.0	3.6	25.0	21.5	25.0	14.3	21.5	28.6	35.8	32.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5	2485.5
2.5°	2510.6	2431.9	2256.7	2124.3	1981.3	1895.5	1809.6	1756.0	1727.4	1709.5	1723.8
5°	2575.0	2410.4	2127.9	1877.6	1713.1	1602.2	1491.3	1434.1	1380.5	1351.8	1369.7
7.5°	2718.0	2471.2	2002.7	1730.9	1537.8	1366.2	1226.7	1115.8	1051.4	994.2	1004.9
10°	2893.2	2507.0	2006.3	1645.1	1366.2	1094.4	897.7	758.2	679.5	629.4	625.9
12.5°	3072.1	2646.5	2020.6	1559.3	1155.2	822.6	590.1	486.4	439.9	414.9	414.9
15°	3343.9	2771.6	1984.9	1401.9	876.2	536.4	404.1	368.4	350.5	329.0	332.6
17.5°	3579.9	2971.9	1967.0	1165.9	600.8	386.2	336.2	296.8	279.0	257.5	257.5
20°	3898.2	3097.1	1870.4	901.2	414.9	321.9	271.8	236.0	207.4	189.5	193.1
22.5°	4187.9	3193.7	1698.8	615.1	318.3	253.9	200.3	164.5	139.5	118.0	121.6
25°	4502.6	3290.2	1448.4	379.1	225.3	157.4	107.3	78.7	53.6	39.3	39.3
27.5°	4727.9	3318.8	1123.0	225.3	135.9	71.5	25.0	3.6	0.0	0.0	0.0
30°	4956.8	3329.6	776.1	121.6	53.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5217.9	3326.0	486.4	64.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	5418.1	3265.2	232.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5722.1	3175.8	71.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6069.0	3014.8	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6380.2	2850.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6734.2	2646.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7356.5	2560.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8168.3	2492.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8669.0	2292.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8930.1	2085.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9316.3	1984.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9888.5	1992.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10782.6	2092.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11276.1	1992.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10857.7	1595.0	68.0	17.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	10496.5	1466.3	68.0	17.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	8676.2	954.9	64.4	17.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6319.4	529.3	53.6	14.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3676.5	264.6	39.3	14.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	958.5	132.3	32.2	17.9	10.7	3.6	0.0	0.0	0.0	0.0	0.0
80°	189.5	85.8	28.6	21.5	14.3	7.2	0.0	0.0	0.0	0.0	0.0
82.5°	89.4	60.8	28.6	21.5	17.9	10.7	3.6	0.0	0.0	0.0	0.0
85°	46.5	28.6	28.6	21.5	21.5	14.3	7.2	0.0	0.0	0.0	0.0
87.5°	21.5	10.7	10.7	10.7	10.7	7.2	3.6	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)