

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: P481976

Luminaire Tested: **IFLD-S-SA2D-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481976
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

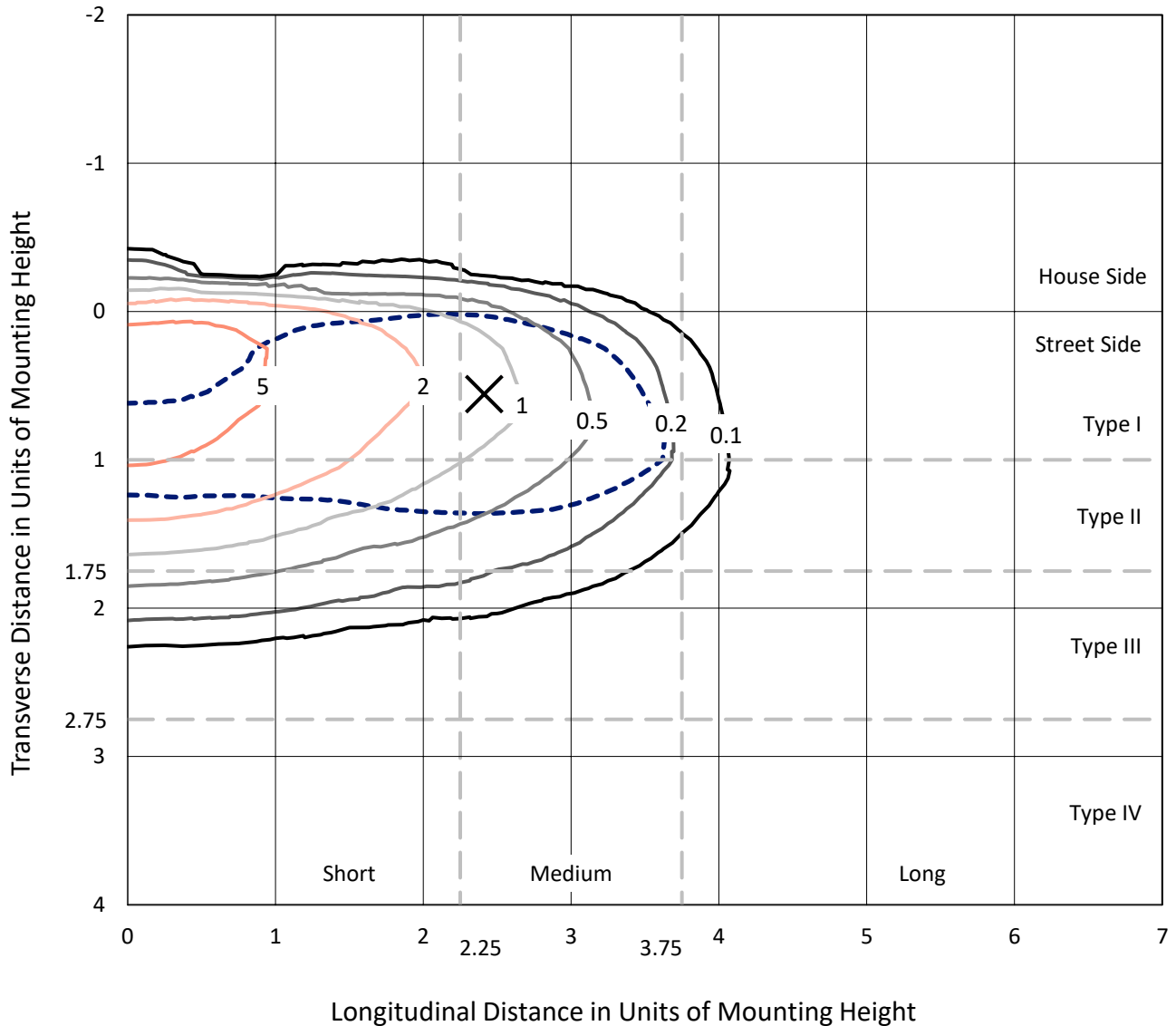
Lumens per Lamp: N/A
Luminaire Lumens: 11196.7 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

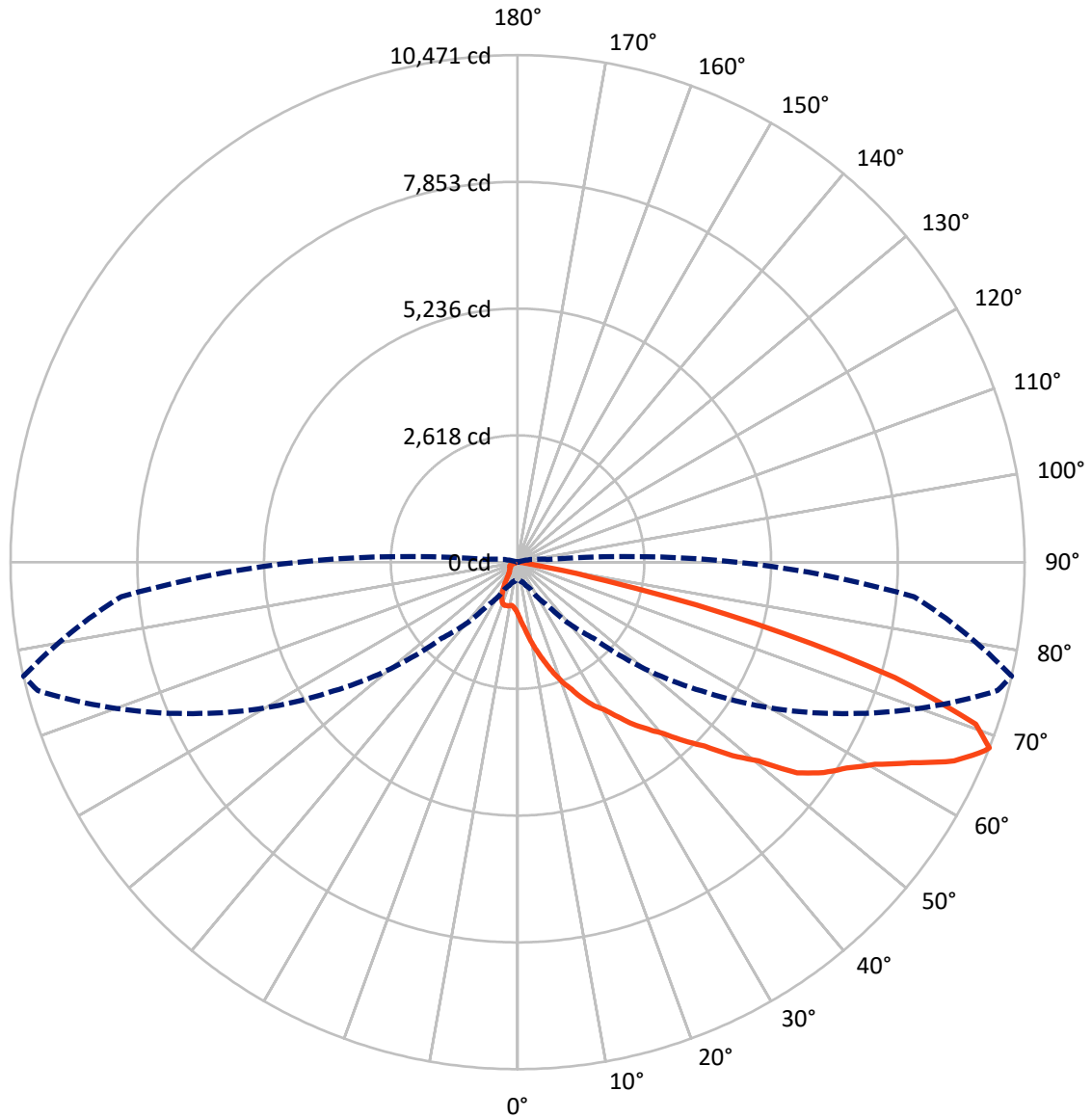
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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	507.8	0.0	507.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	10688.9	0.0	10688.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	11196.7	0.0	11196.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.1
10°-20°	461.9	4.1
20°-30°	895.2	8.0
30°-40°	1560.7	13.9
40°-50°	2285.8	20.4
50°-60°	2685.4	24.0
60°-70°	2267.6	20.3
70°-80°	879.0	7.9
80°-90°	35.7	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°	11196.7	100.0
0°-180°	11196.7	100.0

Coefficient of Utilization

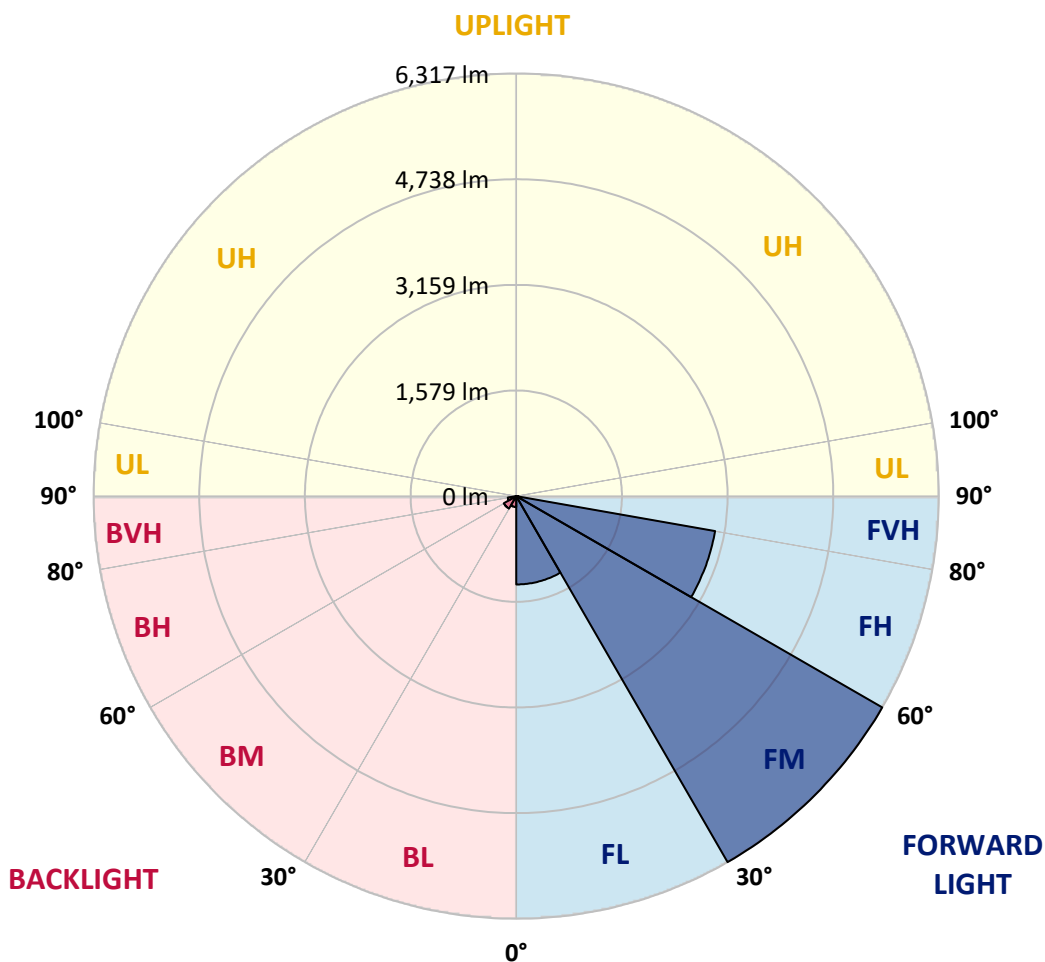


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.2	11.8			
FM (30°-60°)	6317.4	56.4			
FH (60°-80°)	3018.4	27.0			G2/5000
FVH (80°-90°)	33.0	0.3			G1/100
BL (0°-30°)	162.2	1.4	B1/500		
BM (30°-60°)	214.6	1.9	B0/220		
BH (60°-80°)	128.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1629.0	1598.1	1565.7	1556.5	1496.3	1428.4	1365.2	1303.5	1200.1	1201.7	1130.7
5°	2099.5	2060.9	2034.7	2028.5	1934.4	1817.2	1721.5	1547.2	1376.0	1337.4	1207.8
7.5°	2486.6	2474.3	2435.7	2403.3	2333.9	2190.5	2077.9	1828.0	1567.3	1524.1	1301.9
10°	2721.1	2739.6	2756.6	2715.0	2661.0	2557.6	2403.3	2133.4	1784.8	1730.8	1423.8
12.5°	2971.0	2940.2	2951.0	2984.9	2913.9	2890.8	2699.5	2448.1	2039.3	1935.9	1578.1
15°	3035.8	3048.1	3074.4	3173.1	3220.9	3154.6	2989.5	2702.6	2303.1	2159.6	1721.5
17.5°	3079.0	3072.8	3105.2	3253.3	3325.8	3389.1	3285.7	2986.4	2532.9	2404.9	1900.5
20°	3133.0	3099.1	3170.0	3264.1	3432.3	3564.9	3560.3	3271.8	2773.6	2637.8	2077.9
22.5°	3333.5	3307.3	3364.4	3373.6	3490.9	3676.0	3720.7	3504.8	3020.4	2853.8	2269.1
25°	3703.7	3751.6	3683.7	3625.1	3660.6	3782.4	3814.8	3711.5	3268.7	3116.0	2460.4
27.5°	4245.2	4239.0	4104.8	4029.2	3944.4	3929.0	3952.1	3904.3	3464.6	3355.1	2617.8
30°	4826.7	4775.8	4652.4	4470.4	4283.8	4168.1	4135.7	4086.3	3694.5	3535.6	2773.6
32.5°	5289.5	5317.3	5180.0	4942.4	4632.4	4476.6	4320.8	4266.8	3947.5	3807.1	2952.5
35°	5715.3	5678.3	5568.7	5368.2	5090.5	4839.1	4595.4	4479.7	4251.4	4112.5	3150.0
37.5°	6030.0	6076.2	5868.0	5676.7	5400.6	5192.3	4953.2	4700.3	4564.5	4379.4	3390.6
40°	6327.7	6255.2	6114.8	5939.0	5682.9	5524.0	5366.7	4971.8	4897.7	4658.6	3662.1
42.5°	6275.2	6279.9	6202.7	6060.8	5875.7	5784.7	5730.7	5301.9	5200.1	5047.3	3927.4
45°	6060.8	6079.3	6105.6	6036.1	6051.6	5960.5	6105.6	5681.3	5581.1	5419.1	4232.9
47.5°	5824.8	5855.7	5849.5	5976.0	6119.4	6150.3	6512.8	6102.5	6059.3	5969.8	4655.5
50°	5433.0	5445.3	5564.1	5794.0	5989.9	6312.3	6818.2	6562.2	6628.5	6452.6	5158.4
52.5°	4763.5	4808.2	5113.7	5442.2	5837.1	6394.0	7024.9	7245.5	7413.7	7233.2	5641.2
55°	3916.6	3978.3	4279.1	4894.6	5473.1	6270.6	7213.1	7606.5	7947.4	7674.4	5934.3
57.5°	3151.5	3157.7	3427.6	4063.2	4956.3	6028.4	7308.8	7782.3	8240.5	8021.4	6292.2
60°	2401.8	2377.1	2619.3	3170.0	4086.3	5433.0	7069.7	7871.8	8606.1	8479.6	6722.6
62.5°	1545.7	1507.1	1770.9	2307.7	3191.6	4441.1	6591.5	7873.4	9176.8	9129.0	7443.0
65°	765.1	738.9	965.7	1414.6	2209.0	3396.8	5909.6	7844.0	9874.1	9904.9	8144.9
67.5°	404.2	413.4	485.9	717.3	1274.2	2400.3	4882.3	7500.1	10230.4	10403.2	8314.5
68°	371.8	374.8	431.9	597.0	1106.0	2226.0	4638.6	7399.8	10258.2	10471.1	8220.4
70°	302.3	307.0	327.0	374.8	598.5	1448.5	3578.8	6548.3	9840.2	10034.5	7441.4
72.5°	240.6	254.5	266.9	286.9	351.7	760.5	2226.0	5102.9	8129.4	8151.0	5792.4
75°	183.6	194.4	219.0	236.0	274.6	418.0	1059.8	3111.4	5334.3	5072.0	3412.2
77.5°	141.9	151.2	162.0	185.1	229.8	282.3	323.9	1320.5	2266.1	1865.0	964.1
80°	84.8	91.0	126.5	145.0	200.5	191.3	128.0	367.1	459.7	362.5	175.9
82.5°	49.4	54.0	72.5	111.1	140.4	103.4	75.6	114.2	112.6	98.7	58.6
85°	1.5	3.1	40.1	66.3	49.4	27.8	46.3	47.8	40.1	37.0	26.2
87.5°	0.0	1.5	10.8	9.3	10.8	6.2	9.3	12.3	15.4	13.9	10.8
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°	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1	1072.1
2.5°	1082.9	1049.0	973.4	916.3	854.6	817.6	780.5	757.4	745.1	737.4	743.5
5°	1110.7	1039.7	917.8	809.9	738.9	691.1	643.3	618.6	595.4	583.1	590.8
7.5°	1172.4	1065.9	863.8	746.6	663.3	589.3	529.1	481.3	453.5	428.8	433.5
10°	1248.0	1081.4	865.4	709.6	589.3	472.0	387.2	327.0	293.1	271.5	270.0
12.5°	1325.1	1141.5	871.6	672.6	498.3	354.8	254.5	209.8	189.7	178.9	178.9
15°	1442.3	1195.5	856.1	604.7	377.9	231.4	174.3	158.9	151.2	141.9	143.5
17.5°	1544.1	1281.9	848.4	502.9	259.2	166.6	145.0	128.0	120.3	111.1	111.1
20°	1681.4	1335.9	806.8	388.7	178.9	138.8	117.2	101.8	89.5	81.8	83.3
22.5°	1806.4	1377.5	732.7	265.3	137.3	109.5	86.4	71.0	60.2	50.9	52.4
25°	1942.1	1419.2	624.7	163.5	97.2	67.9	46.3	33.9	23.1	17.0	17.0
27.5°	2039.3	1431.5	484.4	97.2	58.6	30.9	10.8	1.5	0.0	0.0	0.0
30°	2138.0	1436.1	334.7	52.4	23.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2250.6	1434.6	209.8	27.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2337.0	1408.4	100.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2468.1	1369.8	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2617.8	1300.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2752.0	1229.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2904.7	1141.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3173.1	1104.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3523.3	1075.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3739.2	988.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3851.8	899.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4018.4	856.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4265.2	859.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4650.9	902.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4863.8	859.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4683.3	688.0	29.3	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4527.5	632.5	29.3	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3742.3	411.9	27.8	7.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2725.7	228.3	23.1	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1585.8	114.2	17.0	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	413.4	57.1	13.9	7.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0
80°	81.8	37.0	12.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.6	26.2	12.3	9.3	7.7	4.6	1.5	0.0	0.0	0.0	0.0
85°	20.1	12.3	12.3	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0
87.5°	9.3	4.6	4.6	4.6	4.6	3.1	1.5	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)