

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: P482054

Luminaire Tested: **IFLD-S-SA2D-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482054
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

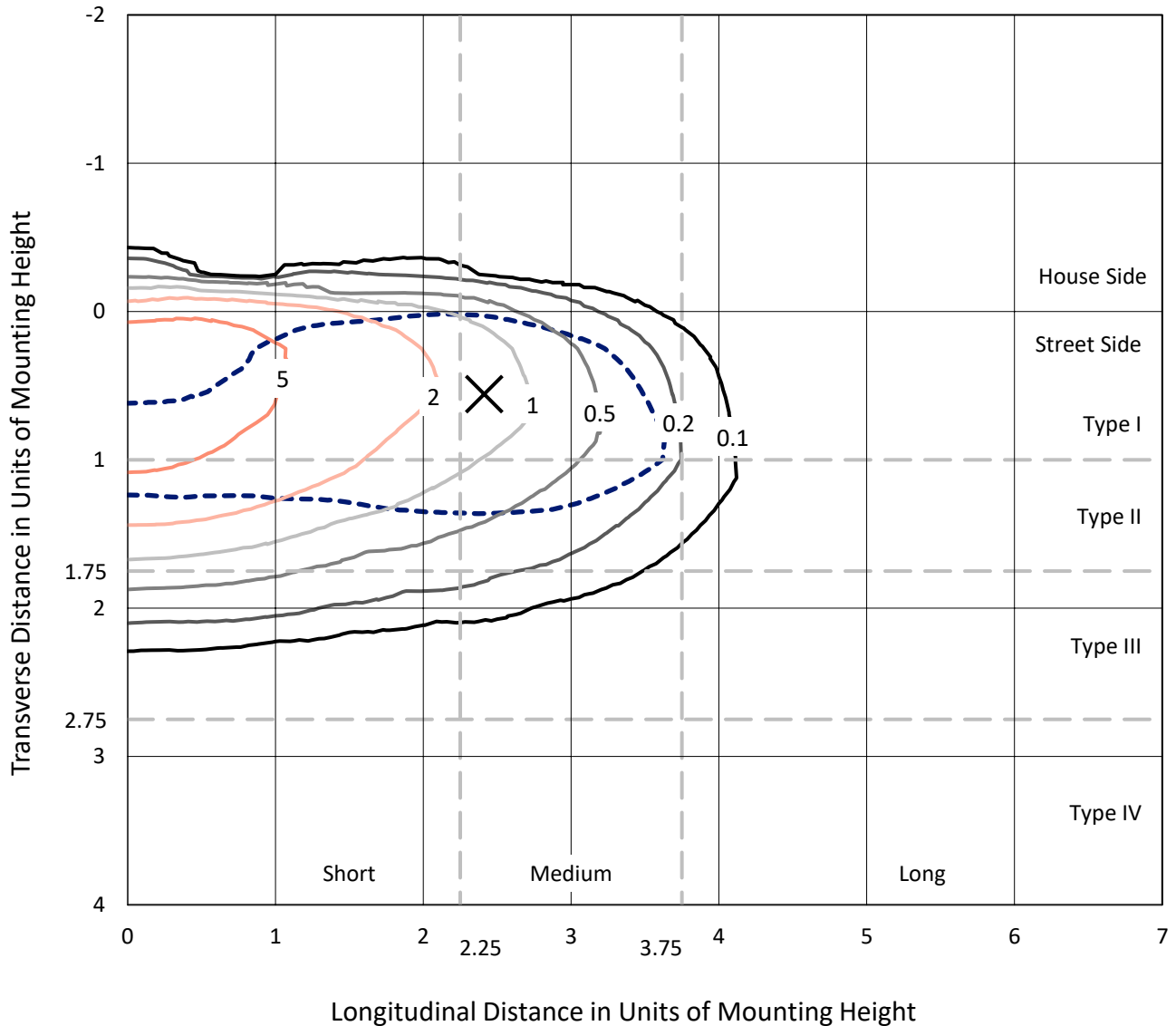
Lumens per Lamp: N/A
Luminaire Lumens: 12295.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

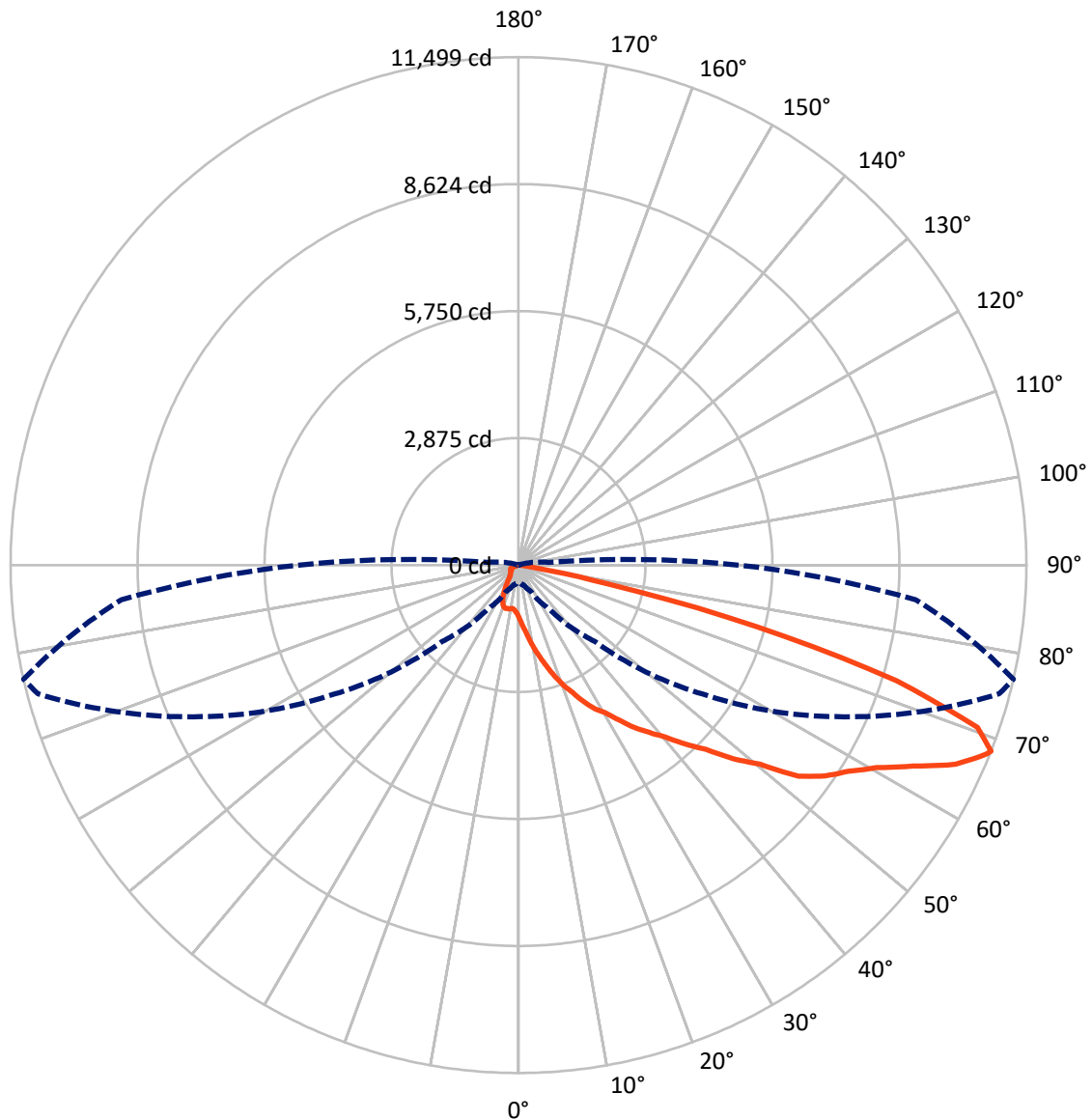
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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	557.6	0.0	557.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	11738.3	0.0	11738.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	12295.9	0.0	12295.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.1
10°-20°	507.3	4.1
20°-30°	983.1	8.0
30°-40°	1713.9	13.9
40°-50°	2510.2	20.4
50°-60°	2949.1	24.0
60°-70°	2490.2	20.3
70°-80°	965.3	7.9
80°-90°	39.3	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°	12295.9	100.0
0°-180°	12295.9	100.0

Coefficient of Utilization



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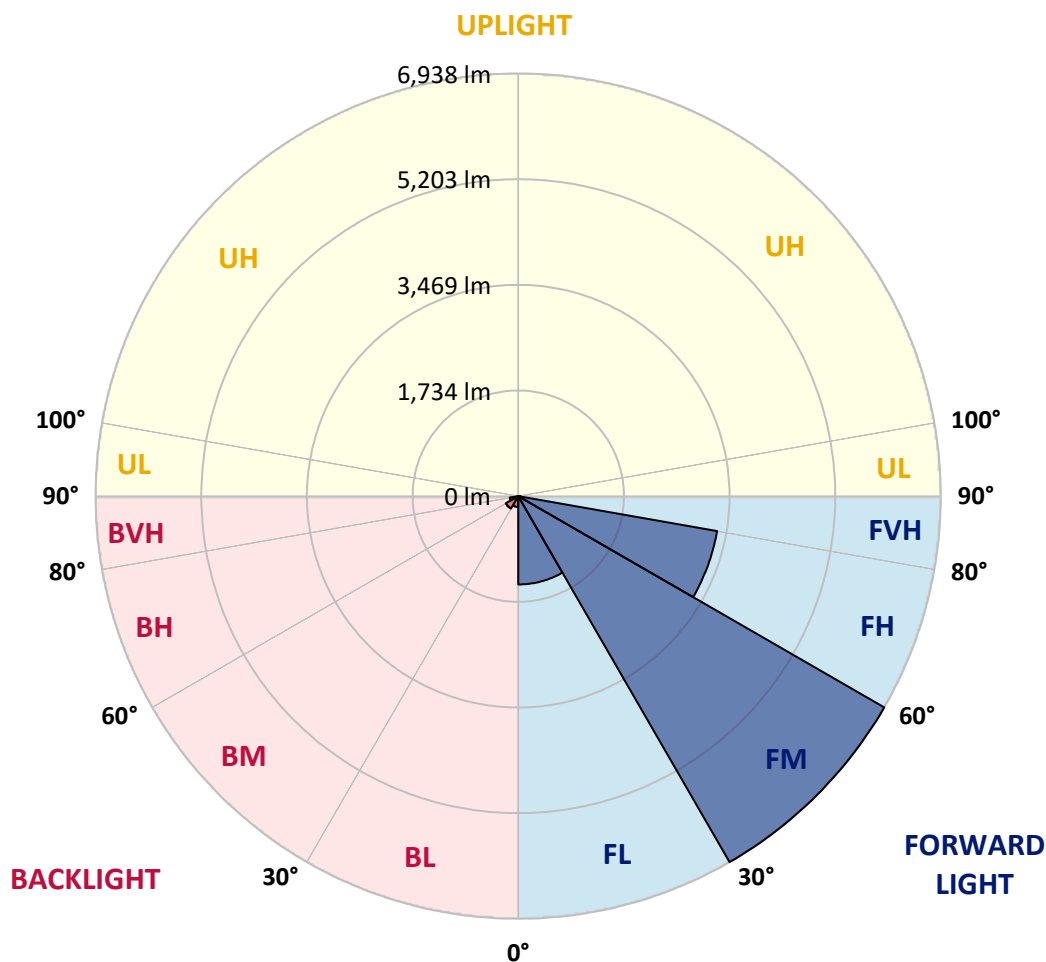
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.8	11.8			
FM (30°-60°)	6937.6	56.4			
FH (60°-80°)	3314.7	27.0			G2/5000
FVH (80°-90°)	36.2	0.3			G1/100
BL (0°-30°)	178.2	1.4	B1/500		
BM (30°-60°)	235.6	1.9	B1/1000		
BH (60°-80°)	140.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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°	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4
2.5°	1788.9	1755.0	1719.4	1709.3	1643.2	1568.7	1499.2	1431.5	1318.0	1319.7	1241.7
5°	2305.6	2263.2	2234.4	2227.7	2124.3	1995.6	1890.5	1699.1	1511.1	1468.7	1326.4
7.5°	2730.8	2717.2	2674.9	2639.3	2563.1	2405.5	2281.9	2007.4	1721.1	1673.7	1429.8
10°	2988.3	3008.6	3027.2	2981.5	2922.2	2808.7	2639.3	2342.8	1960.0	1900.7	1563.6
12.5°	3262.7	3228.8	3240.7	3278.0	3200.0	3174.6	2964.6	2688.4	2239.5	2126.0	1733.0
15°	3333.9	3347.4	3376.2	3484.6	3537.1	3464.3	3283.0	2967.9	2529.2	2371.6	1890.5
17.5°	3381.3	3374.5	3410.1	3572.7	3652.3	3721.8	3608.3	3279.6	2781.6	2641.0	2087.0
20°	3440.6	3403.3	3481.2	3584.6	3769.2	3914.9	3909.8	3593.0	3045.9	2896.8	2281.9
22.5°	3660.8	3632.0	3694.7	3704.8	3833.6	4036.9	4086.0	3848.8	3316.9	3134.0	2491.9
25°	4067.4	4119.9	4045.3	3981.0	4019.9	4153.8	4189.3	4075.8	3589.7	3421.9	2702.0
27.5°	4662.0	4655.2	4507.8	4424.8	4331.6	4314.7	4340.1	4287.6	3804.8	3684.5	2874.8
30°	5300.6	5244.7	5109.2	4909.3	4704.3	4577.3	4541.7	4487.5	4057.2	3882.7	3045.9
32.5°	5808.8	5839.3	5688.6	5427.7	5087.2	4916.1	4745.0	4685.7	4335.0	4180.9	3242.4
35°	6276.4	6235.7	6115.5	5895.2	5590.3	5314.2	5046.5	4919.5	4668.8	4516.3	3459.2
37.5°	6622.0	6672.8	6444.1	6234.0	5930.8	5702.1	5439.5	5161.7	5012.6	4809.4	3723.5
40°	6948.9	6869.3	6715.1	6522.0	6240.8	6066.3	5893.5	5459.9	5378.6	5116.0	4021.6
42.5°	6891.3	6896.4	6811.7	6655.9	6452.6	6352.6	6293.3	5822.4	5710.6	5542.9	4313.0
45°	6655.9	6676.2	6705.0	6628.7	6645.7	6545.7	6705.0	6239.1	6129.0	5951.1	4648.4
47.5°	6396.7	6430.5	6423.8	6562.7	6720.2	6754.1	7152.2	6701.6	6654.2	6555.9	5112.6
50°	5966.4	5979.9	6110.4	6362.8	6577.9	6932.0	7487.6	7206.4	7279.3	7086.1	5664.8
52.5°	5231.2	5280.3	5615.7	5976.5	6410.2	7021.8	7714.6	7956.9	8141.5	7943.3	6195.1
55°	4301.1	4368.9	4699.2	5375.2	6010.4	6886.2	7921.3	8353.3	8727.7	8427.8	6516.9
57.5°	3460.9	3467.7	3764.1	4462.1	5442.9	6620.3	8026.3	8546.4	9049.5	8809.0	6910.0
60°	2637.6	2610.5	2876.5	3481.2	4487.5	5966.4	7763.7	8644.6	9451.0	9312.1	7382.6
62.5°	1697.4	1655.1	1944.7	2534.3	3505.0	4877.1	7238.6	8646.3	10077.8	10025.3	8173.7
65°	840.2	811.4	1060.5	1553.4	2425.9	3730.3	6489.8	8614.2	10843.5	10877.4	8944.5
67.5°	443.8	454.0	533.6	787.7	1399.3	2635.9	5361.6	8236.4	11234.8	11424.6	9130.8
68°	408.3	411.6	474.3	655.6	1214.6	2444.5	5094.0	8126.3	11265.3	11499.1	9027.5
70°	332.0	337.1	359.1	411.6	657.3	1590.7	3930.2	7191.2	10806.2	11019.7	8172.0
72.5°	264.3	279.5	293.1	315.1	386.2	835.2	2444.5	5603.9	8927.5	8951.3	6361.1
75°	201.6	213.4	240.6	259.2	301.5	459.1	1163.8	3416.9	5858.0	5570.0	3747.2
77.5°	155.9	166.0	177.9	203.3	252.4	310.0	355.7	1450.1	2488.5	2048.1	1058.8
80°	93.2	99.9	138.9	159.2	220.2	210.1	140.6	403.2	504.8	398.1	193.1
82.5°	54.2	59.3	79.6	122.0	154.2	113.5	83.0	125.4	123.7	108.4	64.4
85°	1.7	3.4	44.0	72.8	54.2	30.5	50.8	52.5	44.0	40.7	28.8
87.5°	0.0	1.7	11.9	10.2	11.9	6.8	10.2	13.6	16.9	15.2	11.9
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°	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4	1177.4
2.5°	1189.2	1151.9	1068.9	1006.3	938.5	897.8	857.2	831.8	818.2	809.7	816.5
5°	1219.7	1141.8	1007.9	889.4	811.4	758.9	706.4	679.3	653.9	640.3	648.8
7.5°	1287.5	1170.6	948.7	819.9	728.4	647.1	581.1	528.5	498.0	470.9	476.0
10°	1370.5	1187.5	950.4	779.3	647.1	518.4	425.2	359.1	321.9	298.1	296.5
12.5°	1455.2	1253.6	957.1	738.6	547.2	389.6	279.5	230.4	208.4	196.5	196.5
15°	1583.9	1312.9	940.2	664.1	415.0	254.1	191.4	174.5	166.0	155.9	157.5
17.5°	1695.7	1407.7	931.7	552.3	284.6	183.0	159.2	140.6	132.1	122.0	122.0
20°	1846.5	1467.0	886.0	426.9	196.5	152.5	128.7	111.8	98.3	89.8	91.5
22.5°	1983.7	1512.8	804.7	291.4	150.8	120.3	94.9	77.9	66.1	55.9	57.6
25°	2132.8	1558.5	686.1	179.6	106.7	74.5	50.8	37.3	25.4	18.6	18.6
27.5°	2239.5	1572.1	531.9	106.7	64.4	33.9	11.9	1.7	0.0	0.0	0.0
30°	2347.9	1577.1	367.6	57.6	25.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2471.6	1575.4	230.4	30.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	2566.5	1546.7	110.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2710.5	1504.3	33.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2874.8	1428.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3022.2	1350.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3189.9	1253.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3484.6	1212.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3869.2	1180.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4106.3	1085.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4230.0	987.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4413.0	940.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4684.0	943.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5107.5	991.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5341.3	943.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5143.1	755.5	32.2	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	4972.0	694.6	32.2	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	4109.7	452.3	30.5	8.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2993.4	250.7	25.4	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	1741.5	125.4	18.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	454.0	62.7	15.2	8.5	5.1	1.7	0.0	0.0	0.0	0.0	0.0
80°	89.8	40.7	13.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	42.4	28.8	13.6	10.2	8.5	5.1	1.7	0.0	0.0	0.0	0.0
85°	22.0	13.6	13.6	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0
87.5°	10.2	5.1	5.1	5.1	5.1	3.4	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)