

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: McGRAW-EDISON

Report Number: P595381

Luminaire Tested: **IST-PA1F-740-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-740-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7940 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

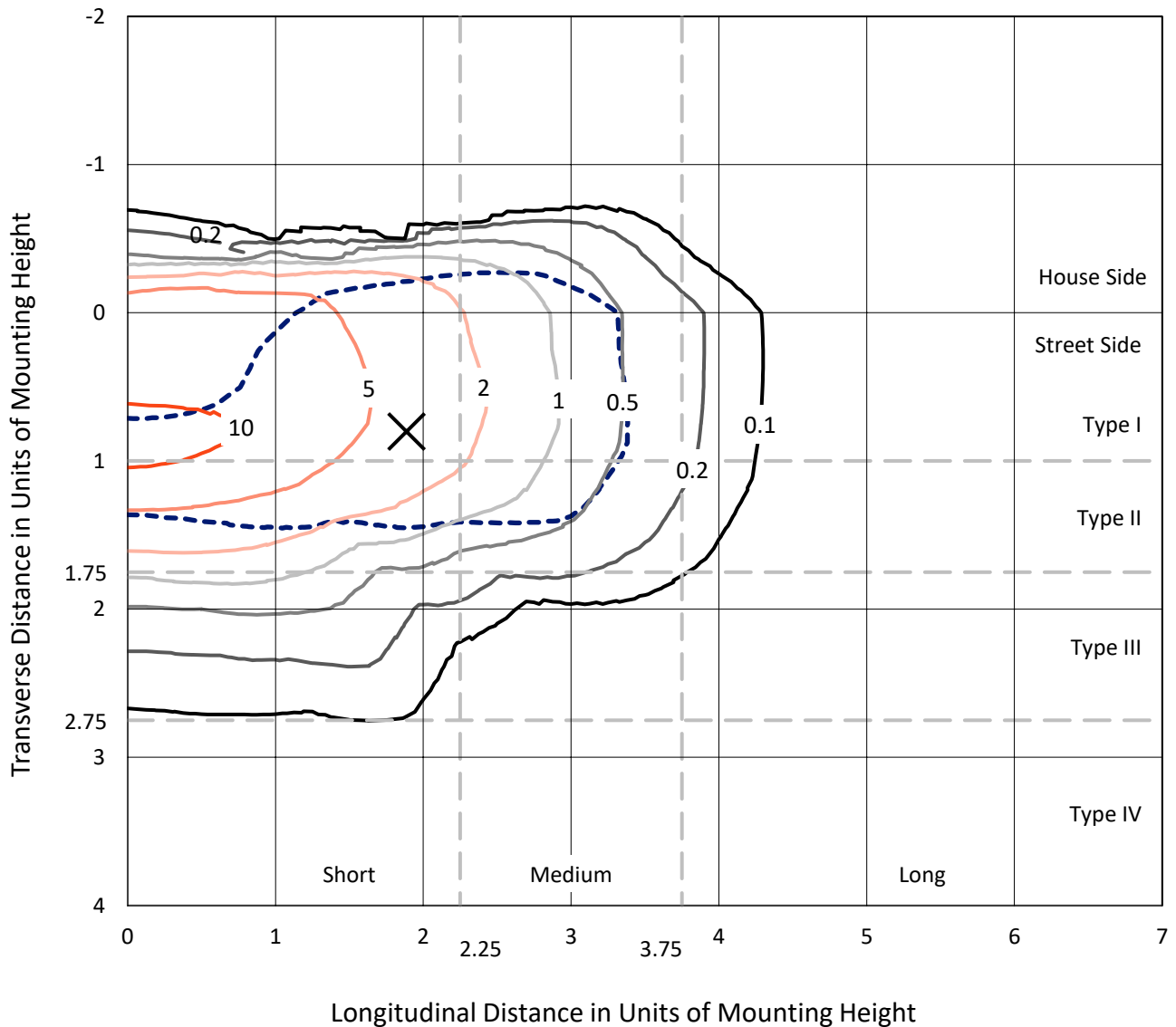
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

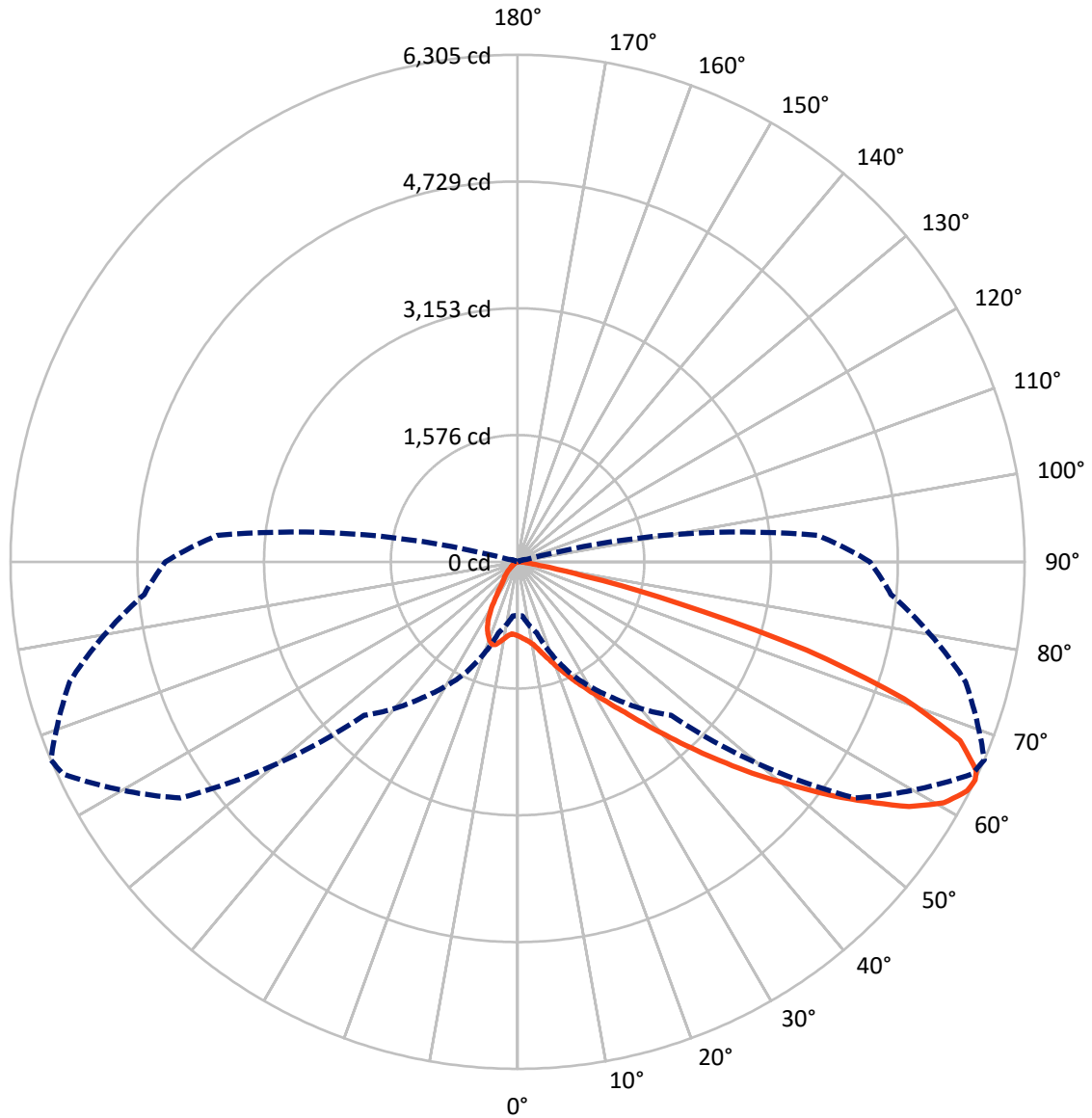
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.7	0.0	1015.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6924.3	0.0	6924.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	7940.0	0.0	7940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.1
10°-20°	258.3	3.3
20°-30°	468.7	5.9
30°-40°	897.8	11.3
40°-50°	1654.7	20.8
50°-60°	2137.3	26.9
60°-70°	1750.6	22.0
70°-80°	643.5	8.1
80°-90°	41.5	0.5
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°	7940.0	100.0
0°-180°	7940.0	100.0

Coefficient of Utilization



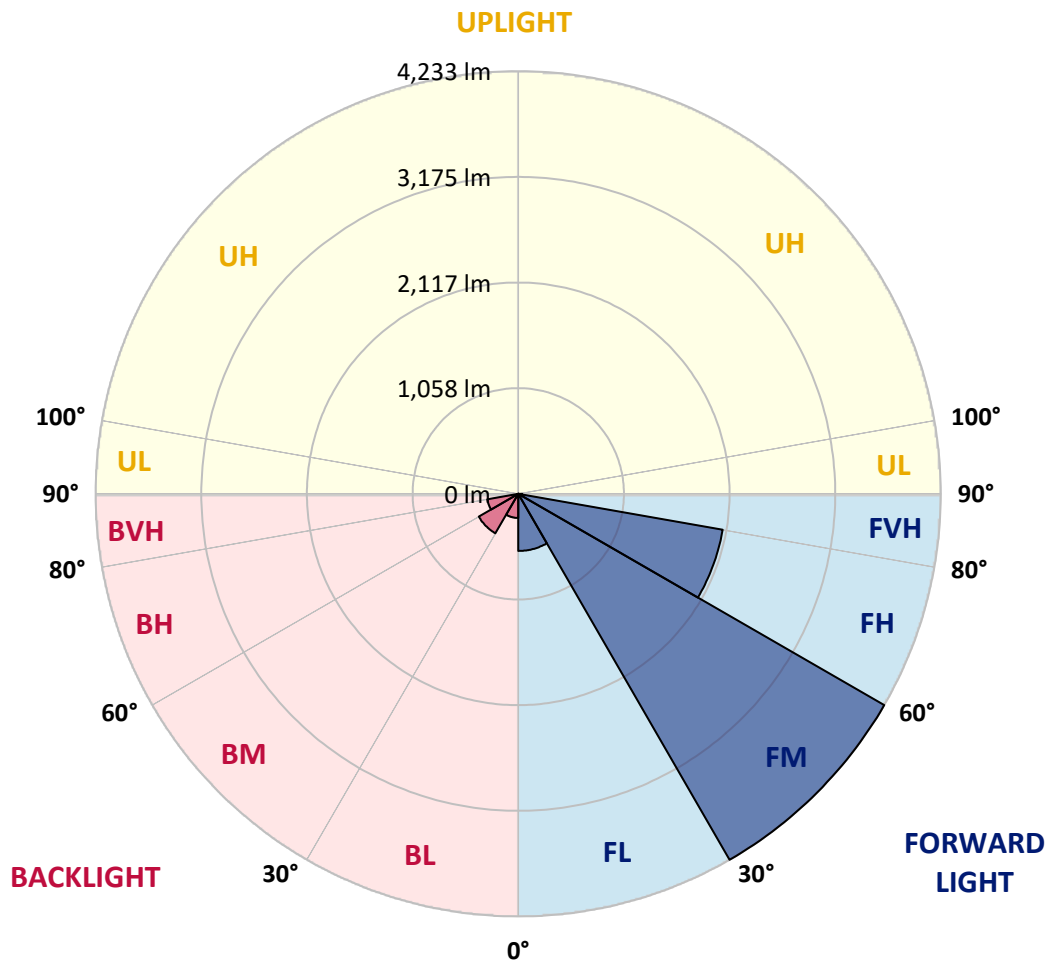
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.5	7.2			
FM (30°-60°)	4233.2	53.3			
FH (60°-80°)	2079.0	26.2			G2/5000
FVH (80°-90°)	39.6	0.5			G1/100
BL (0°-30°)	242.1	3.0	B1/500		
BM (30°-60°)	456.7	5.8	B1/1000		
BH (60°-80°)	315.1	4.0	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
2.5°	955.3	955.3	960.8	958.1	958.1	952.6	944.4	947.2	944.4	941.7	933.5
5°	939.0	941.7	944.4	949.9	960.8	966.3	966.3	969.0	969.0	966.3	955.3
7.5°	930.8	936.2	941.7	947.2	960.8	969.0	982.6	999.0	999.0	1001.7	990.8
10°	960.8	966.3	974.5	982.6	996.3	1009.9	1020.9	1040.0	1040.0	1045.4	1042.7
12.5°	1023.6	1023.6	1026.3	1031.8	1050.9	1067.3	1086.4	1102.7	1105.5	1108.2	1100.0
15°	1100.0	1100.0	1102.7	1102.7	1113.7	1138.2	1173.7	1190.1	1187.4	1184.6	1168.2
17.5°	1187.4	1187.4	1187.4	1190.1	1195.5	1209.2	1250.1	1282.9	1280.2	1277.4	1244.7
20°	1269.2	1274.7	1280.2	1282.9	1288.3	1299.3	1342.9	1381.2	1389.3	1378.4	1321.1
22.5°	1362.0	1364.8	1367.5	1375.7	1389.3	1394.8	1438.5	1495.8	1504.0	1490.3	1413.9
25°	1454.9	1460.3	1468.5	1479.4	1493.1	1520.4	1550.4	1626.8	1635.0	1618.6	1514.9
27.5°	1659.6	1656.8	1632.3	1613.2	1615.9	1635.0	1675.9	1757.8	1766.0	1749.6	1615.9
30°	2009.0	1976.2	1929.8	1845.2	1763.3	1771.5	1828.8	1908.0	1921.6	1899.8	1727.8
32.5°	2505.7	2473.0	2358.3	2172.7	1992.6	1932.5	2006.2	2082.6	2099.0	2074.5	1858.8
35°	2988.9	2980.7	2871.5	2647.7	2342.0	2175.5	2194.6	2292.8	2298.3	2268.3	2022.6
37.5°	3586.6	3556.6	3406.5	3155.4	2795.1	2497.5	2442.9	2535.8	2549.4	2513.9	2221.9
40°	3982.4	3971.5	3881.4	3704.0	3316.4	2942.5	2745.9	2836.0	2833.3	2781.4	2451.1
42.5°	4211.7	4217.2	4211.7	4127.1	3906.0	3477.4	3147.2	3152.6	3160.8	3106.2	2715.9
45°	4367.3	4367.3	4375.5	4443.7	4359.1	4116.2	3635.8	3512.9	3523.9	3439.2	2991.6
47.5°	4364.6	4380.9	4424.6	4582.9	4697.6	4711.2	4247.2	3933.3	3927.8	3799.5	3275.5
50°	4069.8	4058.8	4239.0	4593.8	4937.8	5202.5	4825.8	4378.2	4331.8	4173.5	3570.3
52.5°	3406.5	3442.0	3742.2	4263.6	4995.1	5535.5	5325.4	4864.1	4804.0	4544.7	3829.6
55°	2827.8	2866.0	3158.1	3668.5	4683.9	5652.9	5661.1	5379.9	5259.8	4866.8	4097.1
57.5°	2123.6	2197.3	2628.6	3109.0	4001.5	5360.8	5781.2	5874.0	5743.0	5178.0	4315.4
60°	1356.6	1400.3	1883.4	2475.7	3242.7	4596.6	5756.6	6160.6	6089.6	5461.8	4498.3
62.5°	887.1	911.7	1244.7	1864.3	2470.2	3463.8	5464.6	6275.2	6275.2	5652.9	4634.8
64°	668.7	674.2	911.7	1514.9	2060.8	2699.5	5120.6	6239.8	6305.3	5767.5	4662.1
65°	529.5	532.3	712.4	1258.3	1850.6	2213.7	4820.4	6163.3	6269.8	5811.2	4678.5
67.5°	371.2	379.4	461.3	726.1	1326.6	1277.4	3573.0	5803.0	5934.0	5824.9	4656.6
70°	322.1	333.0	387.6	474.9	947.2	742.4	1899.8	4945.9	5101.5	5426.4	4334.5
72.5°	245.7	259.3	324.8	401.2	666.0	502.2	734.2	3512.9	3758.6	4195.3	3578.4
75°	177.4	182.9	240.2	327.5	466.8	387.6	316.6	1812.4	2060.8	2475.7	2224.6
77.5°	111.9	120.1	163.8	245.7	417.6	294.8	188.3	660.6	832.5	1078.2	971.7
80°	65.5	68.2	98.3	169.2	281.1	218.4	120.1	234.7	283.9	401.2	259.3
82.5°	38.2	40.9	62.8	114.6	182.9	169.2	76.4	120.1	133.7	152.9	54.6
85°	13.6	13.6	43.7	68.2	98.3	84.6	43.7	62.8	68.2	84.6	16.4
87.5°	2.7	2.7	21.8	35.5	35.5	13.6	21.8	27.3	32.8	46.4	5.5
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°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
2.5°	930.8	922.6	914.4	903.5	895.3	878.9	870.7	859.8	857.1	851.6	848.9
5°	952.6	939.0	919.9	892.6	876.2	851.6	835.2	818.9	816.1	810.7	807.9
7.5°	982.6	969.0	944.4	914.4	887.1	862.5	843.4	818.9	794.3	775.2	775.2
10°	1031.8	1015.4	982.6	955.3	922.6	870.7	780.7	698.8	646.9	614.1	603.2
12.5°	1091.8	1070.0	1034.5	1001.7	939.0	775.2	636.0	529.5	442.2	401.2	393.1
15°	1154.6	1135.5	1100.0	1050.9	862.5	646.9	464.0	300.3	215.6	177.4	182.9
17.5°	1222.8	1195.5	1154.6	1056.3	758.8	483.1	248.4	152.9	131.0	125.6	125.6
20°	1293.8	1258.3	1217.4	996.3	625.1	278.4	141.9	114.6	106.5	98.3	101.0
22.5°	1370.2	1326.6	1263.8	906.2	447.6	150.1	109.2	92.8	81.9	79.2	79.2
25°	1452.1	1389.3	1310.2	802.5	259.3	114.6	90.1	73.7	65.5	62.8	60.1
27.5°	1539.5	1460.3	1321.1	666.0	147.4	95.5	71.0	57.3	49.1	46.4	46.4
30°	1618.6	1531.3	1296.5	494.0	111.9	79.2	57.3	43.7	38.2	38.2	38.2
32.5°	1725.1	1610.4	1220.1	308.4	90.1	62.8	43.7	35.5	30.0	30.0	30.0
35°	1864.3	1727.8	1143.7	163.8	73.7	51.9	35.5	27.3	24.6	24.6	24.6
37.5°	2055.4	1883.4	1075.4	103.7	60.1	40.9	27.3	21.8	19.1	19.1	19.1
40°	2251.9	2069.0	979.9	79.2	49.1	32.8	21.8	16.4	13.6	13.6	16.4
42.5°	2497.5	2284.6	870.7	68.2	40.9	27.3	16.4	10.9	8.2	10.9	10.9
45°	2745.9	2511.2	717.9	57.3	35.5	21.8	10.9	5.5	5.5	8.2	8.2
47.5°	3002.5	2751.4	556.8	49.1	30.0	16.4	8.2	2.7	2.7	5.5	5.5
50°	3267.3	2988.9	414.9	43.7	24.6	13.6	5.5	2.7	0.0	2.7	2.7
52.5°	3532.0	3218.1	322.1	38.2	21.8	10.9	2.7	0.0	0.0	0.0	2.7
55°	3777.7	3425.6	256.6	32.8	19.1	8.2	2.7	0.0	0.0	0.0	0.0
57.5°	3985.1	3578.4	204.7	30.0	16.4	5.5	2.7	0.0	0.0	0.0	0.0
60°	4181.7	3698.5	158.3	24.6	13.6	5.5	2.7	0.0	0.0	0.0	0.0
62.5°	4320.9	3744.9	128.3	21.8	10.9	5.5	0.0	0.0	0.0	0.0	0.0
64°	4380.9	3750.4	111.9	19.1	10.9	5.5	2.7	0.0	0.0	0.0	0.0
65°	4416.4	3734.0	103.7	19.1	10.9	5.5	2.7	0.0	0.0	0.0	0.0
67.5°	4424.6	3644.0	79.2	16.4	8.2	2.7	2.7	0.0	0.0	0.0	0.0
70°	4184.4	3330.1	57.3	10.9	5.5	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	3496.6	2543.9	38.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
75°	2183.6	1100.0	21.8	8.2	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	903.5	333.0	13.6	5.5	2.7	2.7	0.0	0.0	0.0	0.0	0.0
80°	207.4	79.2	5.5	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	13.6	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	10.9	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	2.7	2.7	2.7	2.7	0.0	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)