

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: P595280

Luminaire Tested: **IST-PA1E-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-730-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7543 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

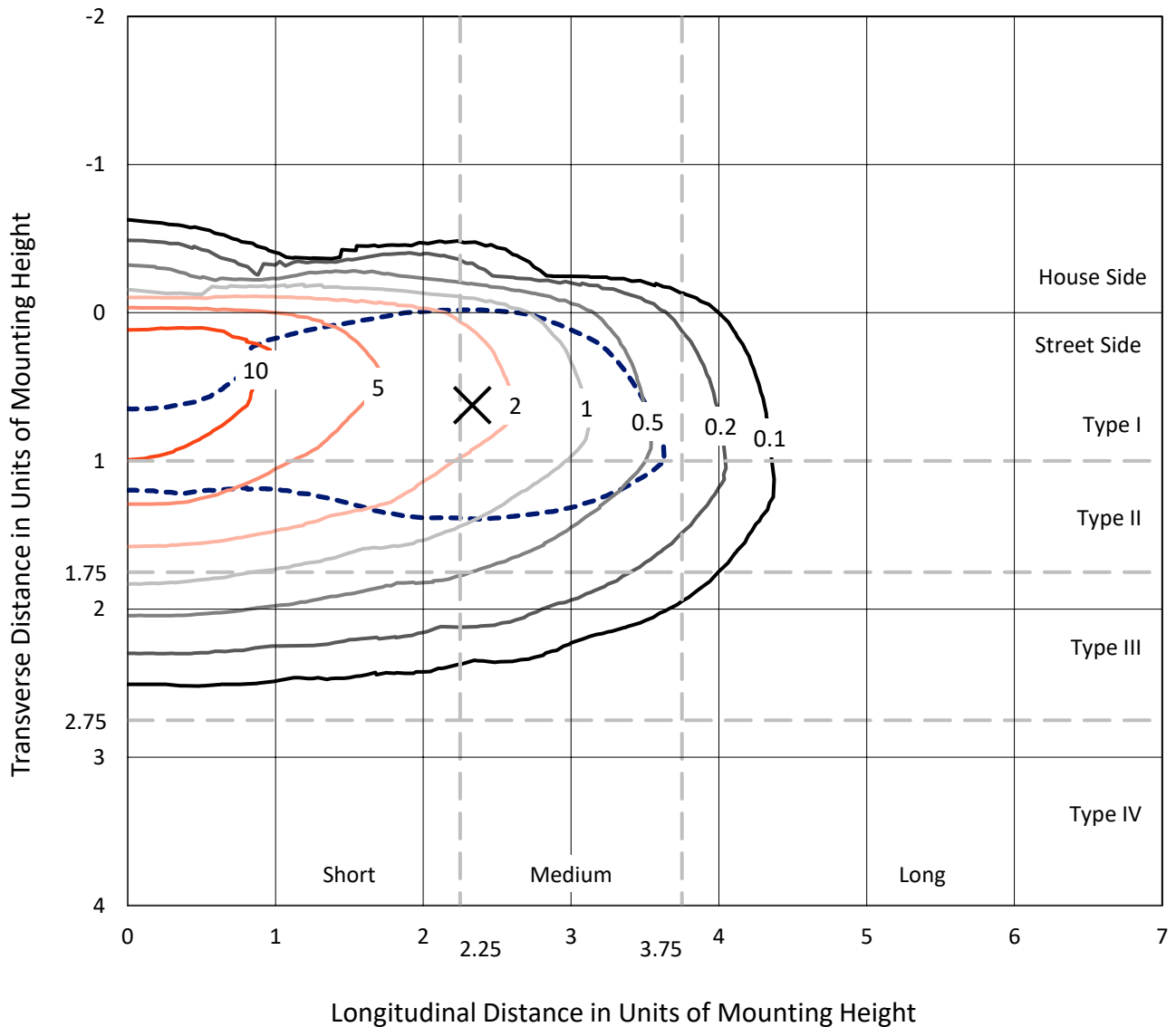
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

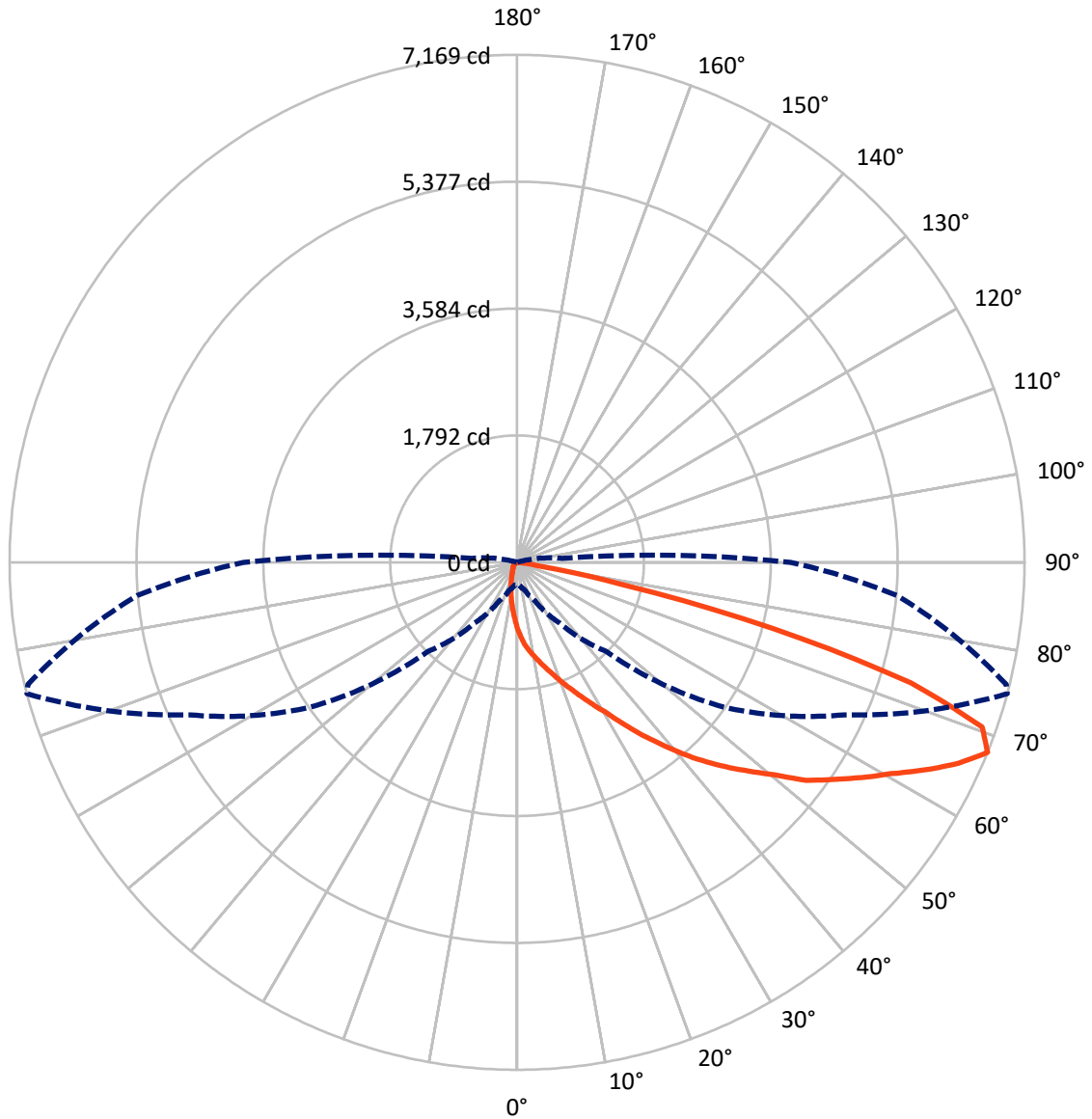
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	380.3	0.0	380.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7162.7	0.0	7162.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	7543.0	0.0	7543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.1
10°-20°	272.9	3.6
20°-30°	548.5	7.3
30°-40°	1037.4	13.8
40°-50°	1552.0	20.6
50°-60°	1791.8	23.8
60°-70°	1588.3	21.1
70°-80°	642.0	8.5
80°-90°	25.6	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°	7543.0	100.0
0°-180°	7543.0	100.0

Coefficient of Utilization

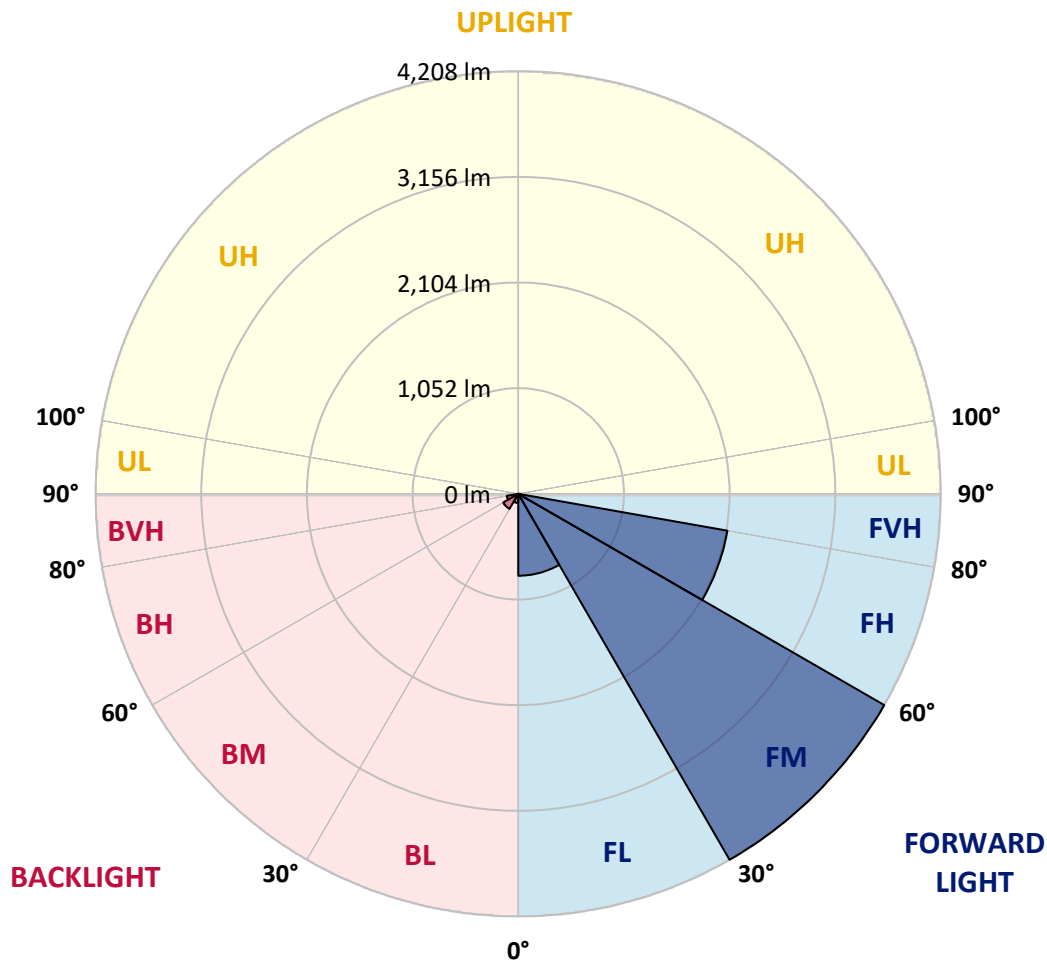


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.5	10.8			
FM (30°-60°)	4207.8	55.8			
FH (60°-80°)	2115.0	28.0			G2/5000
FVH (80°-90°)	24.5	0.3			G1/100
BL (0°-30°)	90.4	1.2	B0/110		
BM (30°-60°)	173.5	2.3	B0/220		
BH (60°-80°)	115.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	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°	76°	85°
0°	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4
2.5°	1304.2	1308.8	1299.7	1279.3	1261.2	1218.2	1184.2	1123.1	1057.4	1057.4	978.2
5°	1458.2	1453.7	1449.1	1433.3	1419.7	1383.5	1338.2	1272.5	1170.6	1161.6	1030.3
7.5°	1532.9	1528.4	1519.3	1512.5	1512.5	1487.6	1444.6	1376.7	1263.5	1254.4	1077.8
10°	1621.2	1612.2	1612.2	1594.1	1589.5	1560.1	1537.5	1478.6	1354.0	1342.7	1132.1
12.5°	1725.4	1716.3	1718.6	1702.7	1696.0	1664.3	1632.6	1575.9	1451.4	1440.1	1195.5
15°	1784.3	1779.7	1793.3	1795.6	1800.1	1772.9	1743.5	1684.6	1560.1	1544.2	1270.3
17.5°	1818.2	1818.2	1834.1	1863.5	1897.5	1881.6	1859.0	1811.4	1671.0	1662.0	1349.5
20°	1883.9	1877.1	1904.3	1931.4	1974.5	1988.0	1981.3	1945.0	1804.6	1777.5	1435.6
22.5°	1992.6	1983.5	2008.4	2042.4	2094.5	2099.0	2103.5	2085.4	1940.5	1913.3	1526.1
25°	2248.4	2225.8	2203.2	2198.6	2219.0	2237.1	2223.5	2237.1	2094.5	2069.6	1623.5
27.5°	2746.6	2708.1	2599.4	2479.4	2395.6	2411.5	2368.4	2393.4	2271.1	2239.4	1714.1
30°	3224.4	3185.9	3097.6	2884.7	2692.2	2606.2	2542.8	2533.7	2452.2	2416.0	1818.2
32.5°	3557.2	3532.3	3473.4	3330.8	3090.8	2871.1	2748.9	2705.8	2694.5	2637.9	1951.8
35°	3783.6	3761.0	3720.2	3604.8	3428.1	3183.6	2973.0	2877.9	2964.0	2896.0	2103.5
37.5°	3919.5	3903.6	3858.4	3779.1	3684.0	3523.2	3251.5	3099.8	3235.7	3172.3	2298.3
40°	4019.1	3978.4	3946.7	3885.5	3853.8	3801.7	3568.5	3330.8	3530.0	3464.4	2490.7
42.5°	4028.2	4010.1	3985.2	3948.9	3953.5	3987.4	3905.9	3598.0	3826.7	3765.5	2694.5
45°	4025.9	4007.8	3989.7	3953.5	3976.1	4102.9	4177.6	3878.7	4116.5	4053.1	2909.6
47.5°	3960.2	3946.7	3951.2	3951.2	3980.6	4152.7	4388.2	4164.0	4406.3	4345.2	3170.0
50°	3729.3	3742.9	3833.4	3881.0	3933.1	4155.0	4535.4	4462.9	4718.8	4675.8	3421.3
52.5°	2997.9	3074.9	3441.7	3693.1	3844.8	4109.7	4630.5	4777.7	5115.0	5049.4	3706.6
55°	2291.5	2296.0	2649.2	3233.4	3670.4	4028.2	4684.8	4990.5	5416.2	5380.0	3958.0
57.5°	1859.0	1856.7	2031.1	2556.4	3217.6	3899.1	4698.4	5146.7	5735.5	5667.5	4247.8
60°	1519.3	1510.3	1614.4	1938.2	2628.8	3595.7	4648.6	5273.5	6063.8	6038.9	4551.2
62.5°	1098.2	1107.2	1245.4	1496.7	2026.5	3036.4	4542.2	5312.0	6460.0	6435.1	4890.9
65°	631.7	658.9	810.6	1077.8	1553.3	2375.2	4238.8	5282.6	6847.2	6845.0	5205.6
67.5°	317.0	319.3	400.8	602.3	1043.8	1777.5	3568.5	5096.9	7168.7	7118.9	5386.8
70°	203.8	208.3	235.5	310.2	577.4	1231.8	2726.2	4571.6	6967.2	6949.1	5121.8
72.5°	156.2	160.8	183.4	203.8	301.2	699.7	1845.4	3552.7	5817.0	5767.2	3994.2
75°	122.3	124.5	147.2	165.3	201.5	328.3	926.1	2214.5	3747.4	3618.3	2273.3
77.5°	97.4	99.6	111.0	131.3	154.0	183.4	274.0	996.3	1523.9	1360.8	738.2
80°	63.4	65.7	83.8	101.9	131.3	120.0	106.4	287.6	326.1	294.4	131.3
82.5°	36.2	38.5	56.6	81.5	99.6	67.9	61.1	83.8	77.0	74.7	40.8
85°	11.3	11.3	38.5	56.6	45.3	20.4	38.5	29.4	24.9	22.6	13.6
87.5°	2.3	2.3	18.1	20.4	6.8	2.3	4.5	6.8	9.1	11.3	6.8
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°	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4
2.5°	939.7	894.4	810.6	738.2	668.0	606.8	563.8	525.3	498.1	491.4	480.0
5°	946.5	858.2	697.4	561.5	443.8	348.7	294.4	258.1	240.0	228.7	228.7
7.5°	953.3	821.9	591.0	409.8	280.8	212.8	178.9	163.0	156.2	154.0	151.7
10°	966.9	794.8	500.4	294.4	192.5	160.8	147.2	140.4	135.9	133.6	133.6
12.5°	989.5	772.1	416.6	217.4	158.5	142.7	133.6	124.5	120.0	117.7	117.7
15°	1018.9	756.3	344.2	174.4	144.9	129.1	117.7	108.7	101.9	99.6	99.6
17.5°	1059.7	745.0	283.0	154.0	133.6	115.5	101.9	92.8	86.0	83.8	83.8
20°	1100.4	745.0	233.2	142.7	122.3	101.9	88.3	77.0	70.2	67.9	67.9
22.5°	1154.8	742.7	194.7	131.3	108.7	88.3	74.7	61.1	56.6	54.3	54.3
25°	1200.1	742.7	167.6	120.0	95.1	77.0	61.1	49.8	45.3	43.0	43.0
27.5°	1254.4	735.9	142.7	106.4	81.5	63.4	49.8	40.8	36.2	34.0	34.0
30°	1302.0	726.8	126.8	95.1	70.2	52.1	40.8	31.7	29.4	29.4	29.4
32.5°	1381.2	720.0	113.2	81.5	58.9	43.0	31.7	24.9	22.6	22.6	22.6
35°	1476.3	720.0	104.2	70.2	49.8	36.2	24.9	20.4	18.1	18.1	18.1
37.5°	1600.9	726.8	92.8	61.1	40.8	29.4	20.4	15.9	13.6	13.6	13.6
40°	1732.2	742.7	83.8	54.3	36.2	22.6	15.9	11.3	9.1	11.3	11.3
42.5°	1888.4	758.5	74.7	47.6	29.4	18.1	11.3	6.8	4.5	6.8	6.8
45°	2042.4	774.4	70.2	40.8	24.9	13.6	6.8	4.5	2.3	4.5	4.5
47.5°	2232.6	812.9	65.7	36.2	20.4	11.3	4.5	2.3	0.0	2.3	2.3
50°	2452.2	855.9	58.9	29.4	15.9	9.1	4.5	0.0	0.0	0.0	0.0
52.5°	2662.8	892.1	52.1	24.9	13.6	6.8	2.3	0.0	0.0	0.0	0.0
55°	2873.4	914.8	45.3	20.4	11.3	6.8	2.3	0.0	0.0	0.0	0.0
57.5°	3099.8	928.4	40.8	18.1	9.1	4.5	2.3	0.0	0.0	0.0	0.0
60°	3351.2	928.4	34.0	15.9	6.8	4.5	2.3	0.0	0.0	0.0	0.0
62.5°	3629.7	901.2	31.7	13.6	6.8	4.5	2.3	0.0	0.0	0.0	0.0
65°	3856.1	803.8	27.2	11.3	6.8	4.5	2.3	0.0	0.0	0.0	0.0
67.5°	3865.1	636.3	24.9	9.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0
70°	3446.3	434.7	20.4	6.8	4.5	4.5	2.3	0.0	0.0	0.0	0.0
72.5°	2579.0	233.2	18.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0	0.0
75°	1390.3	90.6	11.3	6.8	4.5	2.3	2.3	0.0	0.0	0.0	0.0
77.5°	405.3	45.3	6.8	4.5	4.5	2.3	2.3	0.0	0.0	0.0	0.0
80°	74.7	22.6	4.5	4.5	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	9.1	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.1	4.5	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	2.3	2.3	2.3	2.3	2.3	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)