

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: P595408

Luminaire Tested: **IST-PA1F-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595408
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-827-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 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: 5837 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

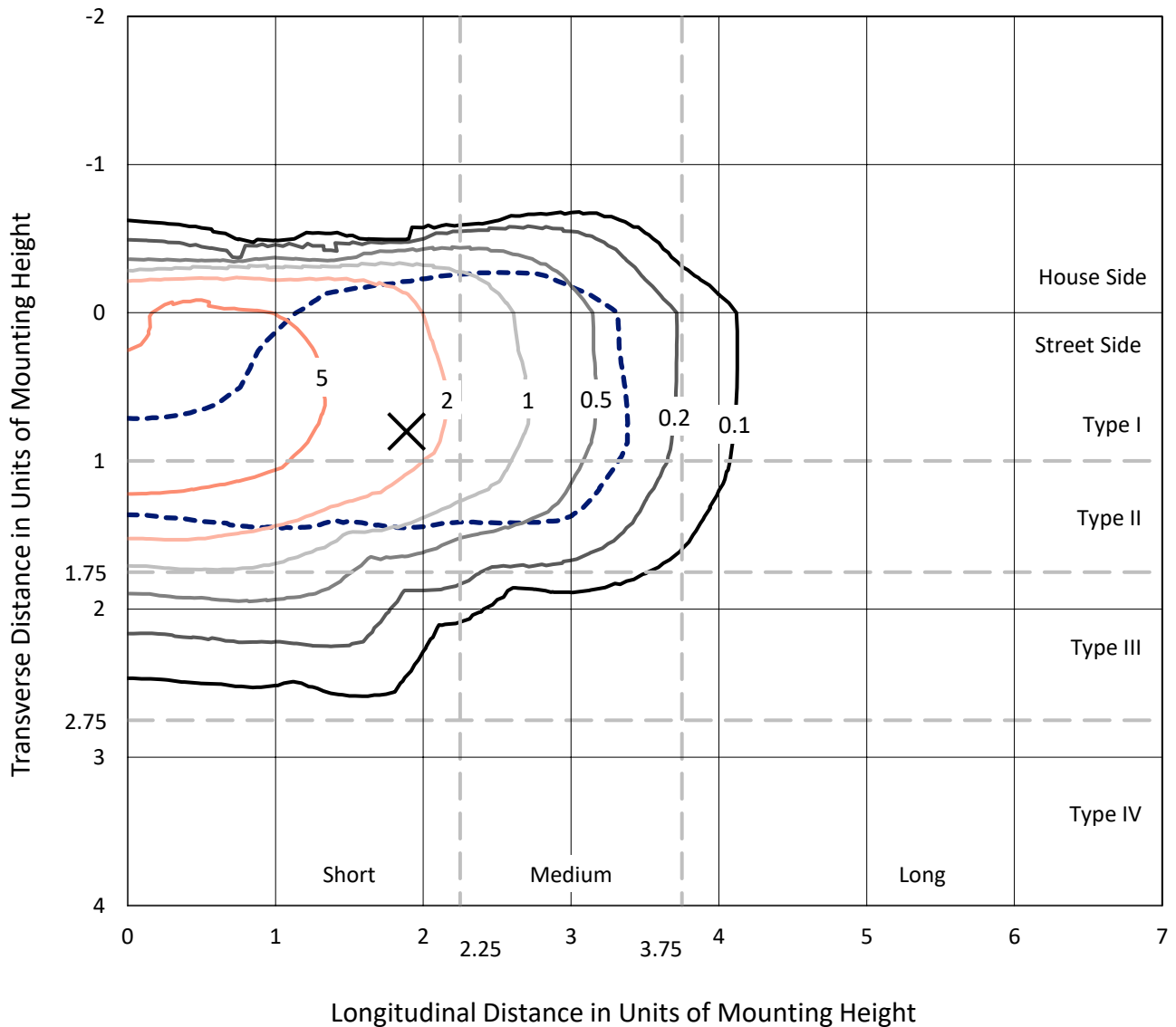




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Iso-Footcandle Lines of Horizontal Illumination

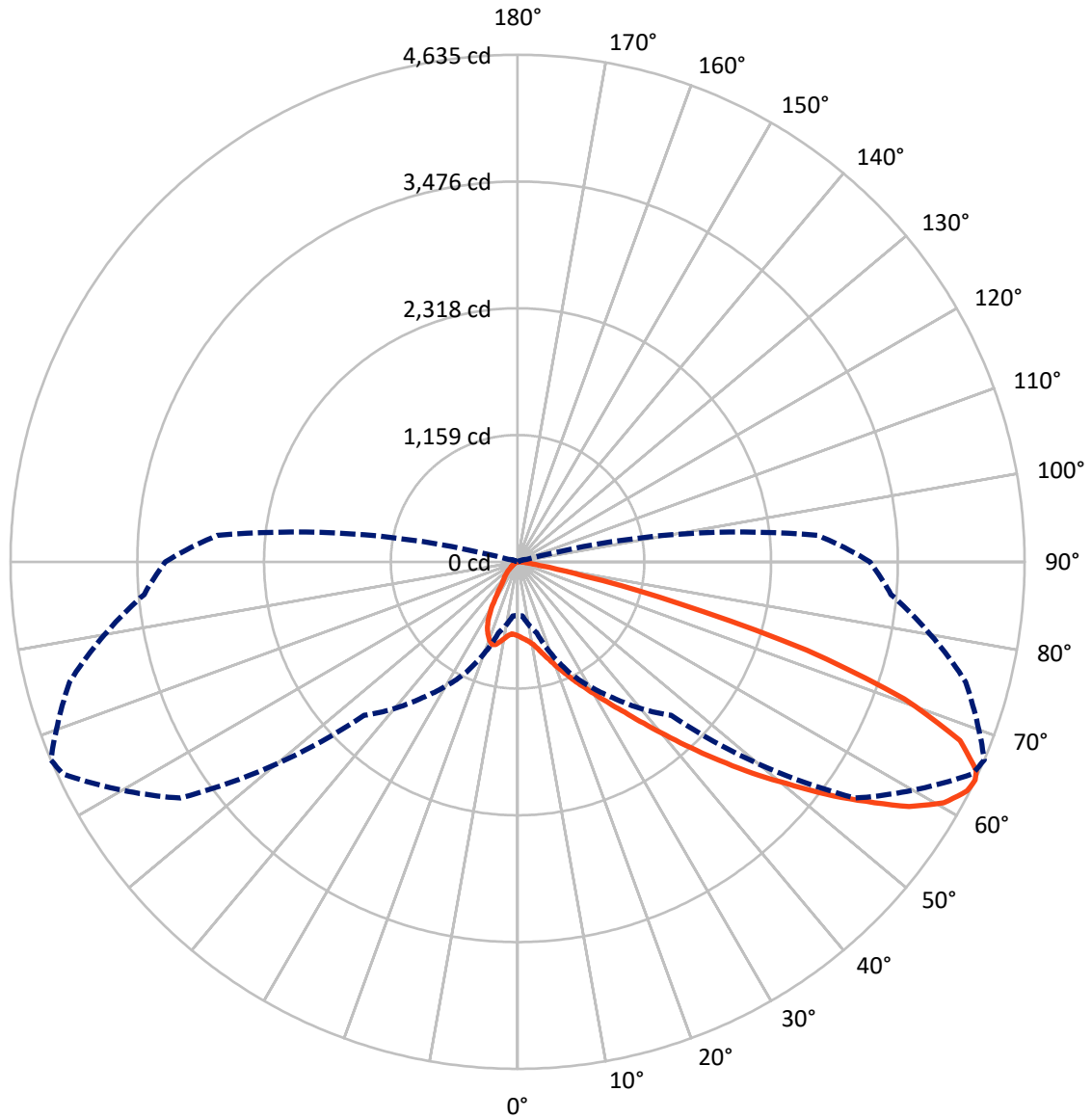
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9 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	746.7	0.0	746.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5090.3	0.0	5090.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	5837.0	0.0	5837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.1
10°-20°	189.9	3.3
20°-30°	344.5	5.9
30°-40°	660.0	11.3
40°-50°	1216.5	20.8
50°-60°	1571.2	26.9
60°-70°	1287.0	22.0
70°-80°	473.1	8.1
80°-90°	30.5	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°	5837.0	100.0
0°-180°	5837.0	100.0

Coefficient of Utilization

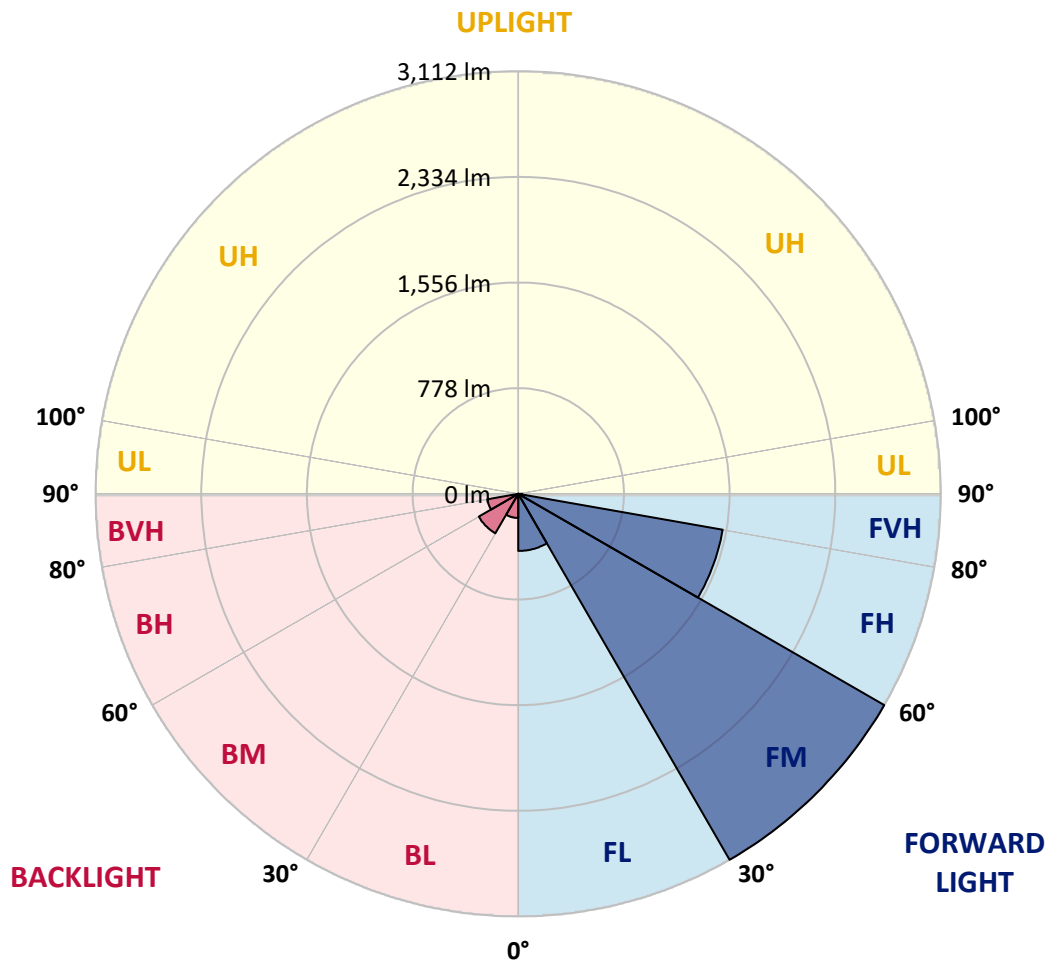


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.8	7.2			
FM (30°-60°)	3112.0	53.3			
FH (60°-80°)	1528.4	26.2			G1/1800
FVH (80°-90°)	29.1	0.5			G1/100
BL (0°-30°)	178.0	3.0	B1/500		
BM (30°-60°)	335.7	5.8	B1/1000		
BH (60°-80°)	231.6	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2
2.5°	702.3	702.3	706.3	704.3	704.3	700.3	694.3	696.3	694.3	692.3	686.3
5°	690.3	692.3	694.3	698.3	706.3	710.3	710.3	712.3	712.3	710.3	702.3
7.5°	684.3	688.3	692.3	696.3	706.3	712.3	722.4	734.4	734.4	736.4	728.4
10°	706.3	710.3	716.4	722.4	732.4	742.4	750.5	764.5	764.5	768.5	766.5
12.5°	752.5	752.5	754.5	758.5	772.5	784.6	798.6	810.7	812.7	814.7	808.7
15°	808.7	808.7	810.7	810.7	818.7	836.8	862.8	874.9	872.9	870.9	858.8
17.5°	872.9	872.9	872.9	874.9	878.9	888.9	919.0	943.1	941.1	939.1	915.0
20°	933.1	937.1	941.1	943.1	947.1	955.1	987.2	1015.3	1021.4	1013.3	971.2
22.5°	1001.3	1003.3	1005.3	1011.3	1021.4	1025.4	1057.5	1099.6	1105.6	1095.6	1039.4
25°	1069.5	1073.5	1079.6	1087.6	1097.6	1117.7	1139.7	1195.9	1202.0	1189.9	1113.7
27.5°	1220.0	1218.0	1199.9	1185.9	1187.9	1202.0	1232.1	1292.2	1298.3	1286.2	1187.9
30°	1476.9	1452.8	1418.7	1356.5	1296.3	1302.3	1344.4	1402.6	1412.6	1396.6	1270.2
32.5°	1842.1	1818.0	1733.7	1597.3	1464.8	1420.7	1474.9	1531.0	1543.1	1525.0	1366.5
35°	2197.2	2191.2	2110.9	1946.4	1721.7	1599.3	1613.3	1685.5	1689.6	1667.5	1486.9
37.5°	2636.7	2614.6	2504.2	2319.6	2054.8	1836.0	1795.9	1864.1	1874.2	1848.1	1633.4
40°	2927.6	2919.6	2853.4	2723.0	2438.0	2163.1	2018.6	2084.9	2082.9	2044.7	1801.9
42.5°	3096.2	3100.2	3096.2	3034.0	2871.4	2556.4	2313.6	2317.6	2323.6	2283.5	1996.6
45°	3210.6	3210.6	3216.6	3266.7	3204.5	3026.0	2672.8	2582.5	2590.5	2528.3	2199.2
47.5°	3208.6	3220.6	3252.7	3369.1	3453.4	3463.4	3122.3	2891.5	2887.5	2793.2	2407.9
50°	2991.8	2983.8	3116.2	3377.1	3629.9	3824.6	3547.7	3218.6	3184.5	3068.1	2624.6
52.5°	2504.2	2530.3	2751.0	3134.3	3672.1	4069.4	3914.9	3575.8	3531.6	3341.0	2815.3
55°	2078.8	2106.9	2321.6	2696.9	3443.3	4155.7	4161.7	3955.0	3866.7	3577.8	3011.9
57.5°	1561.1	1615.3	1932.4	2285.5	2941.7	3941.0	4250.0	4318.2	4221.9	3806.5	3172.4
60°	997.3	1029.4	1384.6	1820.0	2383.8	3379.1	4231.9	4528.9	4476.7	4015.2	3306.9
62.5°	652.1	670.2	915.0	1370.5	1816.0	2546.4	4017.2	4613.2	4613.2	4155.7	3407.2
64°	491.6	495.6	670.2	1113.7	1515.0	1984.5	3764.4	4587.1	4635.2	4239.9	3427.3
65°	389.3	391.3	523.7	925.0	1360.5	1627.4	3543.7	4530.9	4609.2	4272.0	3439.3
67.5°	272.9	278.9	339.1	533.8	975.2	939.1	2626.6	4266.0	4362.3	4282.1	3423.3
70°	236.8	244.8	284.9	349.1	696.3	545.8	1396.6	3636.0	3750.3	3989.1	3186.5
72.5°	180.6	190.6	238.8	295.0	489.6	369.2	539.8	2582.5	2763.1	3084.1	2630.7
75°	130.4	134.4	176.6	240.8	343.1	284.9	232.8	1332.4	1515.0	1820.0	1635.4
77.5°	82.3	88.3	120.4	180.6	307.0	216.7	138.5	485.6	612.0	792.6	714.3
80°	48.2	50.2	72.2	124.4	206.7	160.5	88.3	172.6	208.7	295.0	190.6
82.5°	28.1	30.1	46.2	84.3	134.4	124.4	56.2	88.3	98.3	112.4	40.1
85°	10.0	10.0	32.1	50.2	72.2	62.2	32.1	46.2	50.2	62.2	12.0
87.5°	2.0	2.0	16.1	26.1	26.1	10.0	16.1	20.1	24.1	34.1	4.0
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°	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2	678.2
2.5°	684.3	678.2	672.2	664.2	658.2	646.1	640.1	632.1	630.1	626.1	624.1
5°	700.3	690.3	676.2	656.2	644.1	626.1	614.0	602.0	600.0	596.0	594.0
7.5°	722.4	712.3	694.3	672.2	652.1	634.1	620.0	602.0	583.9	569.9	569.9
10°	758.5	746.5	722.4	702.3	678.2	640.1	573.9	513.7	475.6	451.5	443.5
12.5°	802.6	786.6	760.5	736.4	690.3	569.9	467.5	389.3	325.1	295.0	289.0
15°	848.8	834.7	808.7	772.5	634.1	475.6	341.1	220.7	158.5	130.4	134.4
17.5°	899.0	878.9	848.8	776.6	557.8	355.2	182.6	112.4	96.3	92.3	92.3
20°	951.1	925.0	894.9	732.4	459.5	204.7	104.3	84.3	78.3	72.2	74.2
22.5°	1007.3	975.2	929.1	666.2	329.1	110.4	80.3	68.2	60.2	58.2	58.2
25°	1067.5	1021.4	963.2	589.9	190.6	84.3	66.2	54.2	48.2	46.2	44.1
27.5°	1131.7	1073.5	971.2	489.6	108.4	70.2	52.2	42.1	36.1	34.1	34.1
30°	1189.9	1125.7	953.1	363.2	82.3	58.2	42.1	32.1	28.1	28.1	28.1
32.5°	1268.2	1183.9	896.9	226.7	66.2	46.2	32.1	26.1	22.1	22.1	22.1
35°	1370.5	1270.2	840.8	120.4	54.2	38.1	26.1	20.1	18.1	18.1	18.1
37.5°	1511.0	1384.6	790.6	76.3	44.1	30.1	20.1	16.1	14.0	14.0	14.0
40°	1655.4	1521.0	720.4	58.2	36.1	24.1	16.1	12.0	10.0	10.0	12.0
42.5°	1836.0	1679.5	640.1	50.2	30.1	20.1	12.0	8.0	6.0	8.0	8.0
45°	2018.6	1846.1	527.7	42.1	26.1	16.1	8.0	4.0	4.0	6.0	6.0
47.5°	2207.3	2022.7	409.3	36.1	22.1	12.0	6.0	2.0	2.0	4.0	4.0
50°	2401.9	2197.2	305.0	32.1	18.1	10.0	4.0	2.0	0.0	2.0	2.0
52.5°	2596.5	2365.8	236.8	28.1	16.1	8.0	2.0	0.0	0.0	0.0	2.0
55°	2777.1	2518.3	188.6	24.1	14.0	6.0	2.0	0.0	0.0	0.0	0.0
57.5°	2929.6	2630.7	150.5	22.1	12.0	4.0	2.0	0.0	0.0	0.0	0.0
60°	3074.1	2718.9	116.4	18.1	10.0	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3176.4	2753.1	94.3	16.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0
64°	3220.6	2757.1	82.3	14.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
65°	3246.7	2745.0	76.3	14.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3252.7	2678.8	58.2	12.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0
70°	3076.1	2448.1	42.1	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	2570.5	1870.2	28.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1605.3	808.7	16.1	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	664.2	244.8	10.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	152.5	58.2	4.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	10.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	2.0	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)