

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: P595334

Luminaire Tested: **IST-PA1E-830-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595334
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-830-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 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: 6582 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

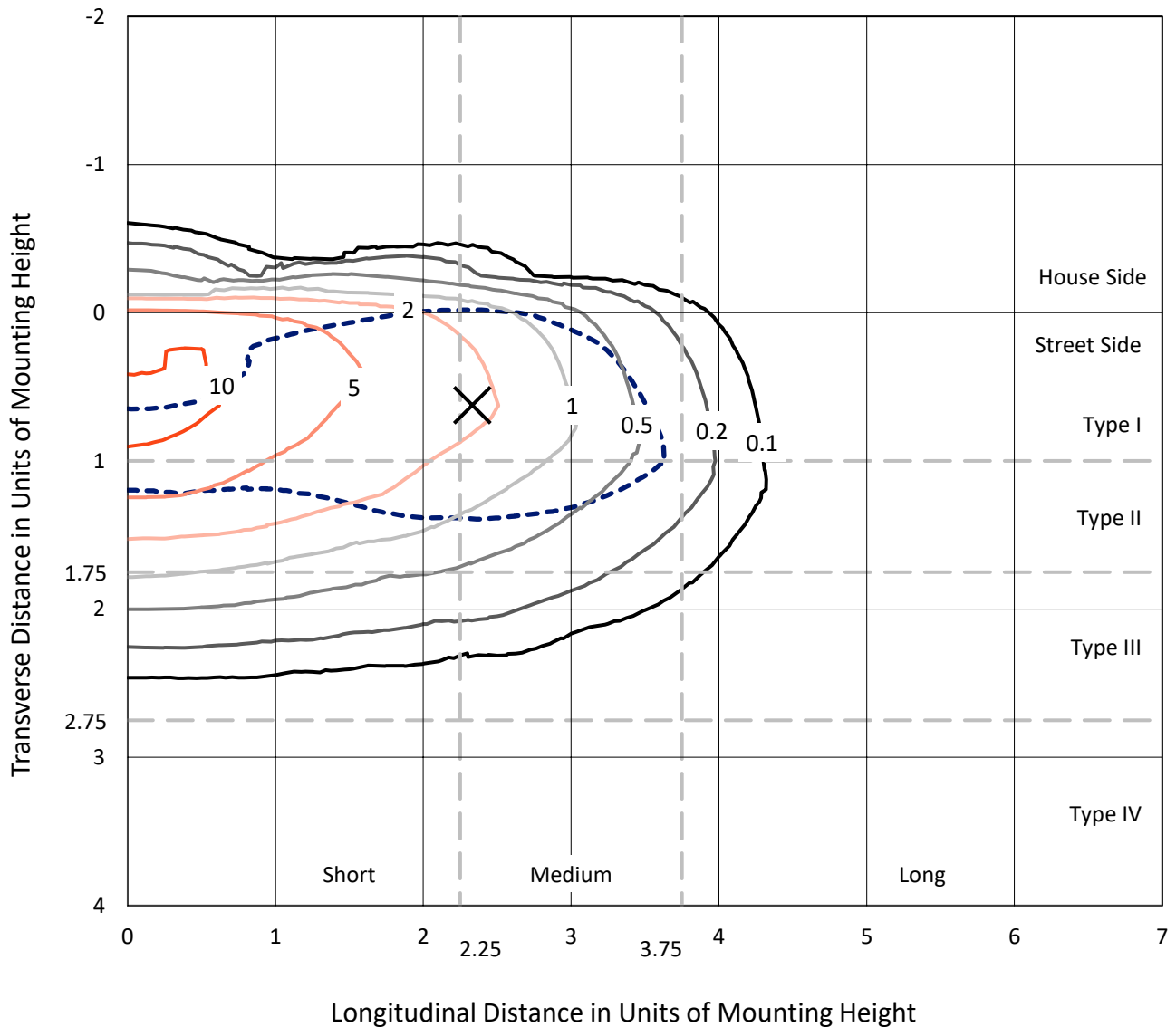
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

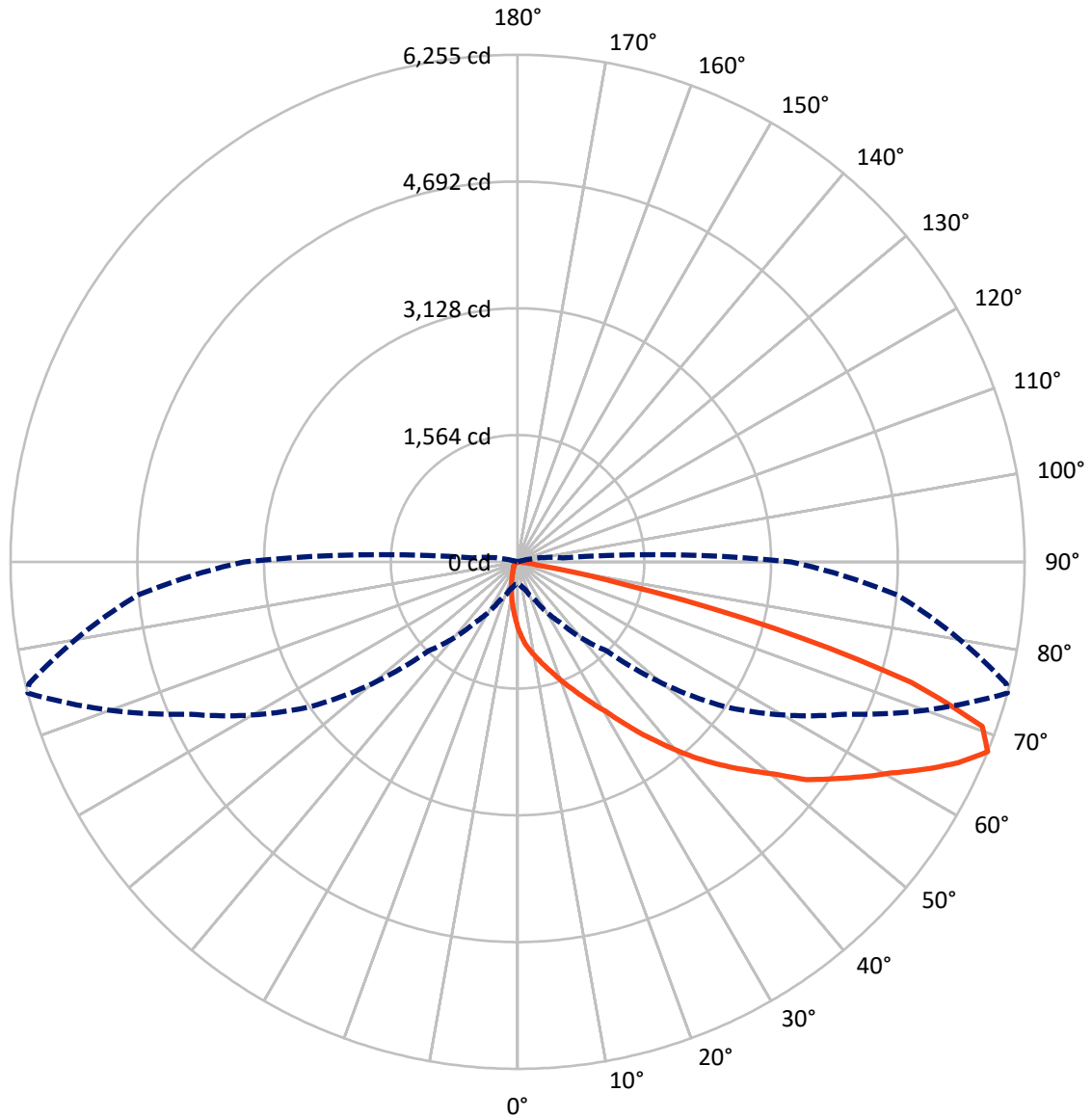
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.9 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	331.8	0.0	331.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6250.2	0.0	6250.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	6582.0	0.0	6582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.1
10°-20°	238.1	3.6
20°-30°	478.6	7.3
30°-40°	905.2	13.8
40°-50°	1354.3	20.6
50°-60°	1563.6	23.8
60°-70°	1386.0	21.1
70°-80°	560.2	8.5
80°-90°	22.4	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°	6582.0	100.0
0°-180°	6582.0	100.0

Coefficient of Utilization

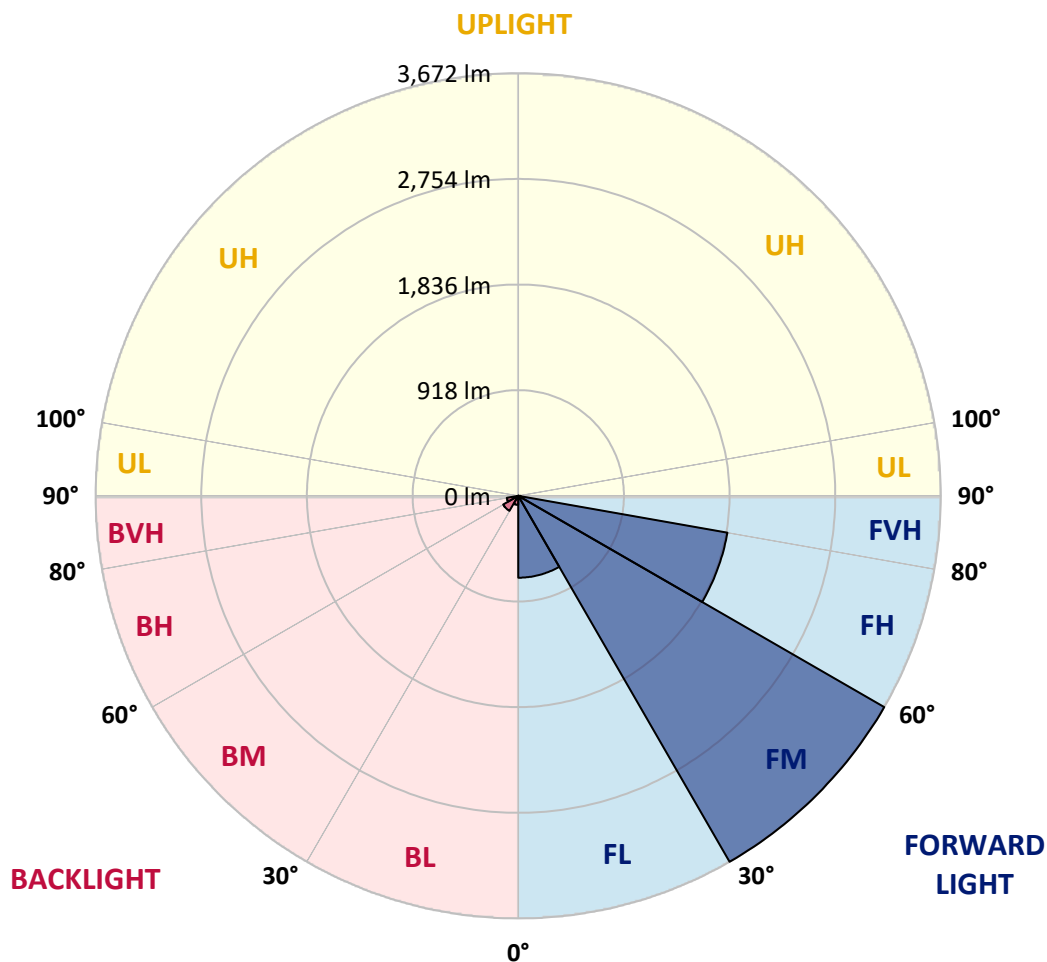


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.6	10.8			
FM (30°-60°)	3671.7	55.8			
FH (60°-80°)	1845.5	28.0			G2/5000
FVH (80°-90°)	21.4	0.3			G1/100
BL (0°-30°)	78.9	1.2	B0/110		
BM (30°-60°)	151.4	2.3	B0/220		
BH (60°-80°)	100.6	1.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	1138.1	1142.0	1134.1	1116.3	1100.5	1063.0	1033.4	980.0	922.7	922.7	853.6
5°	1272.4	1268.5	1264.5	1250.7	1238.8	1207.2	1167.7	1110.4	1021.5	1013.6	899.0
7.5°	1337.6	1333.7	1325.8	1319.8	1319.8	1298.1	1260.6	1201.3	1102.5	1094.6	940.5
10°	1414.7	1406.8	1406.8	1391.0	1387.0	1361.3	1341.6	1290.2	1181.5	1171.7	987.9
12.5°	1505.6	1497.7	1499.6	1485.8	1479.9	1452.2	1424.6	1375.2	1266.5	1256.6	1043.2
15°	1556.9	1553.0	1564.8	1566.8	1570.8	1547.1	1521.4	1470.0	1361.3	1347.5	1108.4
17.5°	1586.6	1586.6	1600.4	1626.1	1655.7	1641.9	1622.1	1580.7	1458.2	1450.2	1177.6
20°	1643.9	1638.0	1661.7	1685.4	1722.9	1734.8	1728.8	1697.2	1574.7	1551.0	1252.7
22.5°	1738.7	1730.8	1752.5	1782.2	1827.6	1831.6	1835.5	1819.7	1693.3	1669.6	1331.7
25°	1962.0	1942.2	1922.5	1918.5	1936.3	1952.1	1940.2	1952.1	1827.6	1805.9	1416.7
27.5°	2396.7	2363.1	2268.2	2163.5	2090.4	2104.2	2066.7	2088.4	1981.7	1954.1	1495.7
30°	2813.6	2780.0	2702.9	2517.2	2349.2	2274.2	2218.8	2210.9	2139.8	2108.2	1586.6
32.5°	3104.0	3082.3	3030.9	2906.4	2697.0	2505.3	2398.6	2361.1	2351.2	2301.8	1703.2
35°	3301.6	3281.8	3246.3	3145.5	2991.4	2778.0	2594.2	2511.3	2586.3	2527.1	1835.5
37.5°	3420.1	3406.3	3366.8	3297.6	3214.7	3074.4	2837.3	2704.9	2823.4	2768.1	2005.5
40°	3507.1	3471.5	3443.8	3390.5	3362.8	3317.4	3113.9	2906.4	3080.3	3023.0	2173.4
42.5°	3515.0	3499.2	3477.4	3445.8	3449.8	3479.4	3408.3	3139.6	3339.1	3285.8	2351.2
45°	3513.0	3497.2	3481.4	3449.8	3469.5	3580.2	3645.4	3384.6	3592.0	3536.7	2538.9
47.5°	3455.7	3443.8	3447.8	3447.8	3473.5	3623.6	3829.1	3633.5	3844.9	3791.6	2766.1
50°	3254.2	3266.0	3345.1	3386.5	3432.0	3625.6	3957.6	3894.3	4117.6	4080.1	2985.5
52.5°	2616.0	2683.2	3003.2	3222.6	3354.9	3586.1	4040.5	4169.0	4463.4	4406.1	3234.4
55°	1999.5	2003.5	2311.7	2821.5	3202.8	3515.0	4088.0	4354.7	4726.1	4694.5	3453.7
57.5°	1622.1	1620.2	1772.3	2230.7	2807.6	3402.4	4099.8	4491.0	5004.7	4945.5	3706.6
60°	1325.8	1317.9	1408.8	1691.3	2293.9	3137.6	4056.3	4601.7	5291.2	5269.5	3971.4
62.5°	958.3	966.2	1086.7	1306.0	1768.4	2649.6	3963.5	4635.3	5637.0	5615.3	4267.8
65°	551.3	575.0	707.3	940.5	1355.4	2072.6	3698.7	4609.6	5974.9	5972.9	4542.4
67.5°	276.6	278.6	349.7	525.6	910.9	1551.0	3113.9	4447.6	6255.4	6212.0	4700.5
70°	177.8	181.8	205.5	270.7	503.8	1074.8	2378.9	3989.2	6079.6	6063.8	4469.3
72.5°	136.3	140.3	160.0	177.8	262.8	610.5	1610.3	3100.1	5075.9	5032.4	3485.3
75°	106.7	108.7	128.4	144.2	175.8	286.5	808.1	1932.3	3270.0	3157.4	1983.7
77.5°	85.0	86.9	96.8	114.6	134.4	160.0	239.1	869.4	1329.7	1187.5	644.1
80°	55.3	57.3	73.1	88.9	114.6	104.7	92.9	250.9	284.5	256.9	114.6
82.5°	31.6	33.6	49.4	71.1	86.9	59.3	53.3	73.1	67.2	65.2	35.6
85°	9.9	9.9	33.6	49.4	39.5	17.8	33.6	25.7	21.7	19.8	11.9
87.5°	2.0	2.0	15.8	17.8	5.9	2.0	4.0	5.9	7.9	9.9	5.9
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°	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0	818.0
2.5°	820.0	780.4	707.3	644.1	582.9	529.5	492.0	458.4	434.7	428.8	418.9
5°	825.9	748.8	608.6	490.0	387.3	304.3	256.9	225.2	209.4	199.6	199.6
7.5°	831.8	717.2	515.7	357.6	245.0	185.7	156.1	142.3	136.3	134.4	132.4
10°	843.7	693.5	436.7	256.9	167.9	140.3	128.4	122.5	118.5	116.6	116.6
12.5°	863.4	673.8	363.5	189.7	138.3	124.5	116.6	108.7	104.7	102.7	102.7
15°	889.1	659.9	300.3	152.1	126.5	112.6	102.7	94.8	88.9	86.9	86.9
17.5°	924.7	650.0	247.0	134.4	116.6	100.8	88.9	81.0	75.1	73.1	73.1
20°	960.2	650.0	203.5	124.5	106.7	88.9	77.1	67.2	61.3	59.3	59.3
22.5°	1007.7	648.1	169.9	114.6	94.8	77.1	65.2	53.3	49.4	47.4	47.4
25°	1047.2	648.1	146.2	104.7	83.0	67.2	53.3	43.5	39.5	37.5	37.5
27.5°	1094.6	642.1	124.5	92.9	71.1	55.3	43.5	35.6	31.6	29.6	29.6
30°	1136.1	634.2	110.6	83.0	61.3	45.4	35.6	27.7	25.7	25.7	25.7
32.5°	1205.2	628.3	98.8	71.1	51.4	37.5	27.7	21.7	19.8	19.8	19.8
35°	1288.2	628.3	90.9	61.3	43.5	31.6	21.7	17.8	15.8	15.8	15.8
37.5°	1396.9	634.2	81.0	53.3	35.6	25.7	17.8	13.8	11.9	11.9	11.9
40°	1511.5	648.1	73.1	47.4	31.6	19.8	13.8	9.9	7.9	9.9	9.9
42.5°	1647.8	661.9	65.2	41.5	25.7	15.8	9.9	5.9	4.0	5.9	5.9
45°	1782.2	675.7	61.3	35.6	21.7	11.9	5.9	4.0	2.0	4.0	4.0
47.5°	1948.2	709.3	57.3	31.6	17.8	9.9	4.0	2.0	0.0	2.0	2.0
50°	2139.8	746.9	51.4	25.7	13.8	7.9	4.0	0.0	0.0	0.0	0.0
52.5°	2323.6	778.5	45.4	21.7	11.9	5.9	2.0	0.0	0.0	0.0	0.0
55°	2507.3	798.2	39.5	17.8	9.9	5.9	2.0	0.0	0.0	0.0	0.0
57.5°	2704.9	810.1	35.6	15.8	7.9	4.0	2.0	0.0	0.0	0.0	0.0
60°	2924.2	810.1	29.6	13.8	5.9	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3167.2	786.4	27.7	11.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0
65°	3364.8	701.4	23.7	9.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3372.7	555.2	21.7	7.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0
70°	3007.2	379.4	17.8	5.9	4.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	2250.5	203.5	15.8	5.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0
75°	1213.2	79.0	9.9	5.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0
77.5°	353.7	39.5	5.9	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
80°	65.2	19.8	4.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	7.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	4.0	2.0	2.0	2.0	2.0	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)