

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: P595217

Luminaire Tested: **IST-PA1D-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595217
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-PA1D-740-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6725 lumens
Efficiency: N/A
Efficacy: 107.8 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

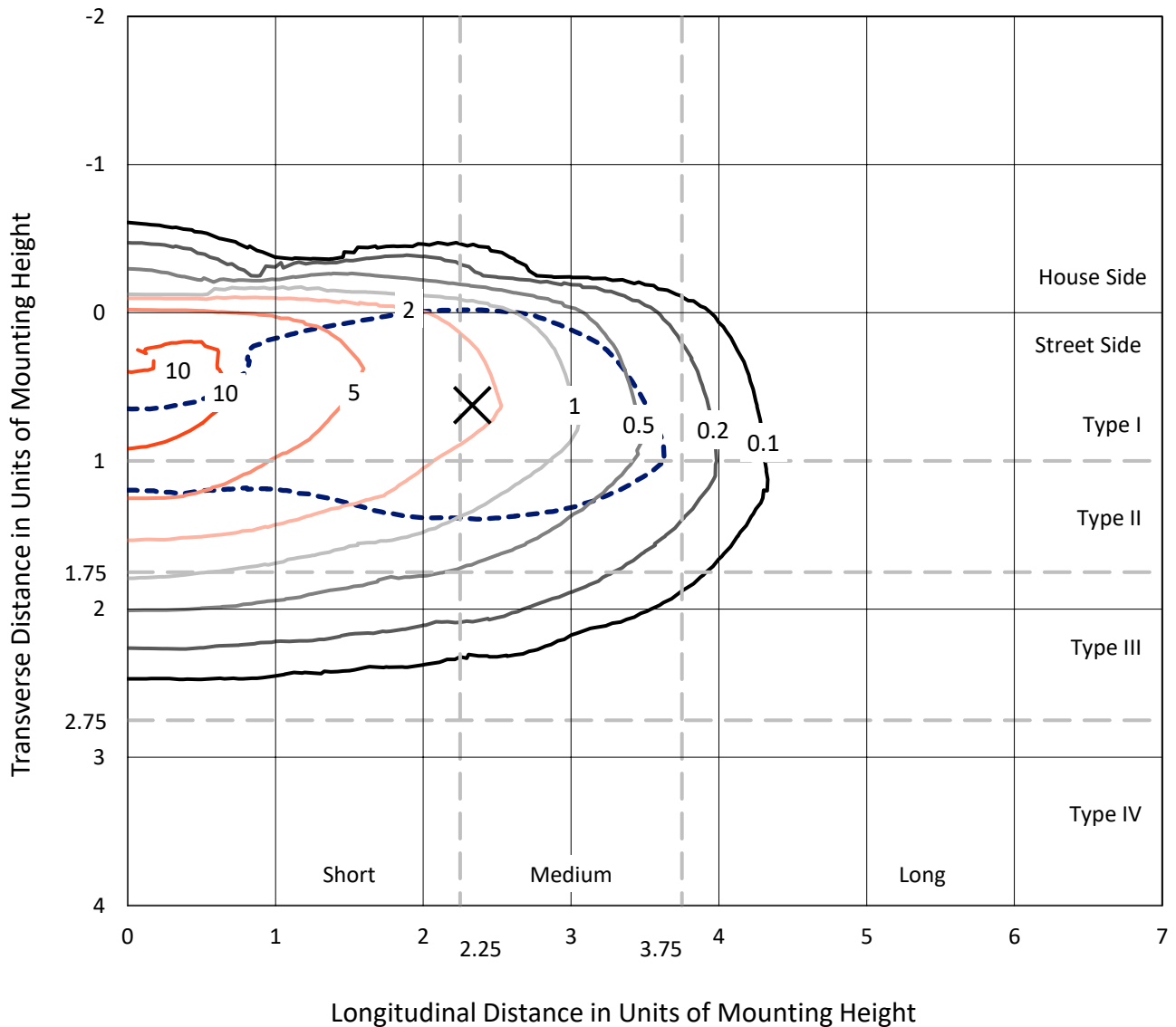
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595217
 CATALOG NUMBER: IST-PA1D-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

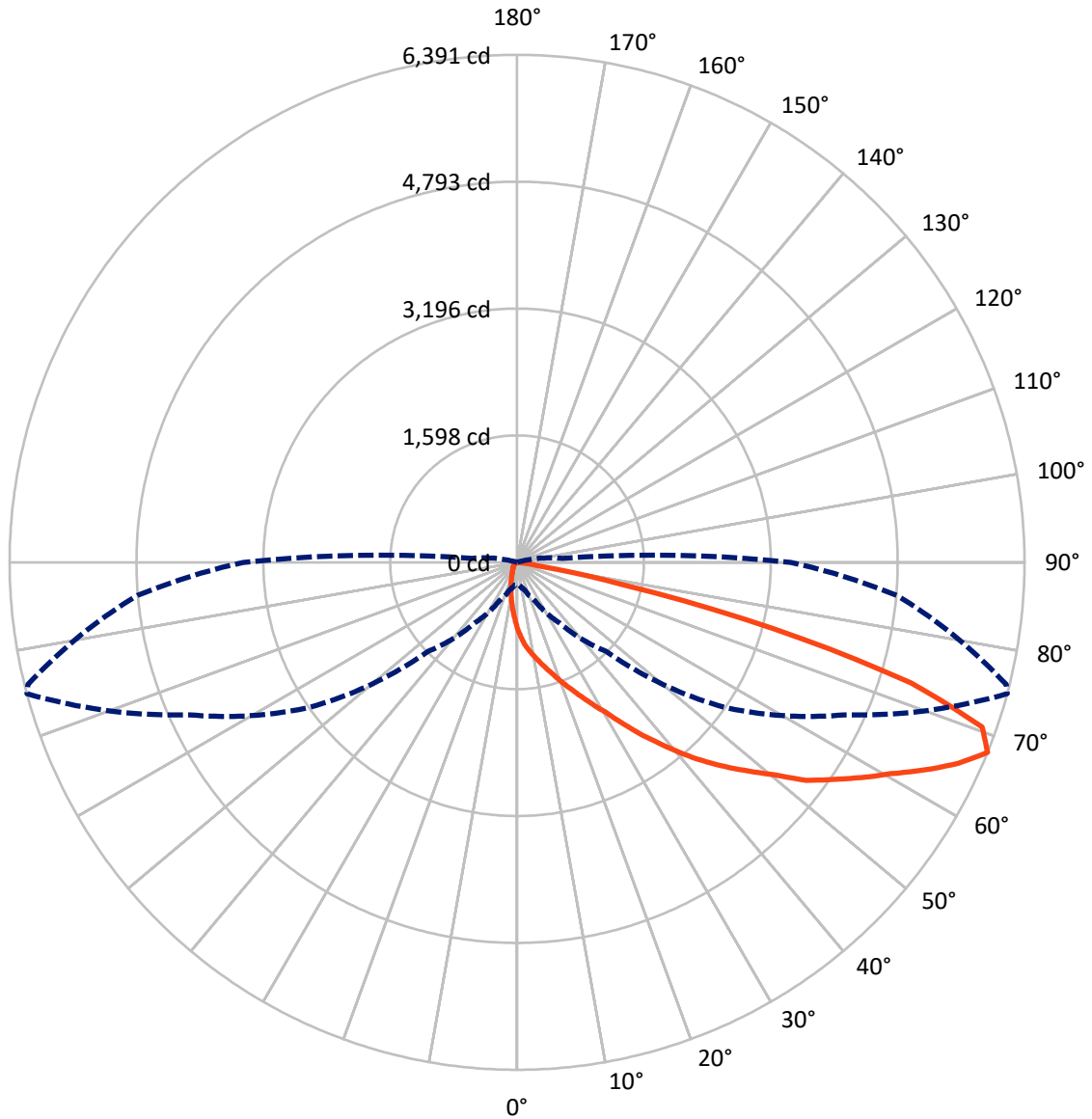
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P595217
CATALOG NUMBER: IST-PA1D-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P595217
 CATALOG NUMBER: IST-PA1D-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	339.0	0.0	339.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6386.0	0.0	6386.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	6725.0	0.0	6725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	1.1
10°-20°	243.3	3.6
20°-30°	489.0	7.3
30°-40°	924.9	13.8
40°-50°	1383.7	20.6
50°-60°	1597.5	23.8
60°-70°	1416.1	21.1
70°-80°	572.4	8.5
80°-90°	22.8	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°	6725.0	100.0
0°-180°	6725.0	100.0

Coefficient of Utilization

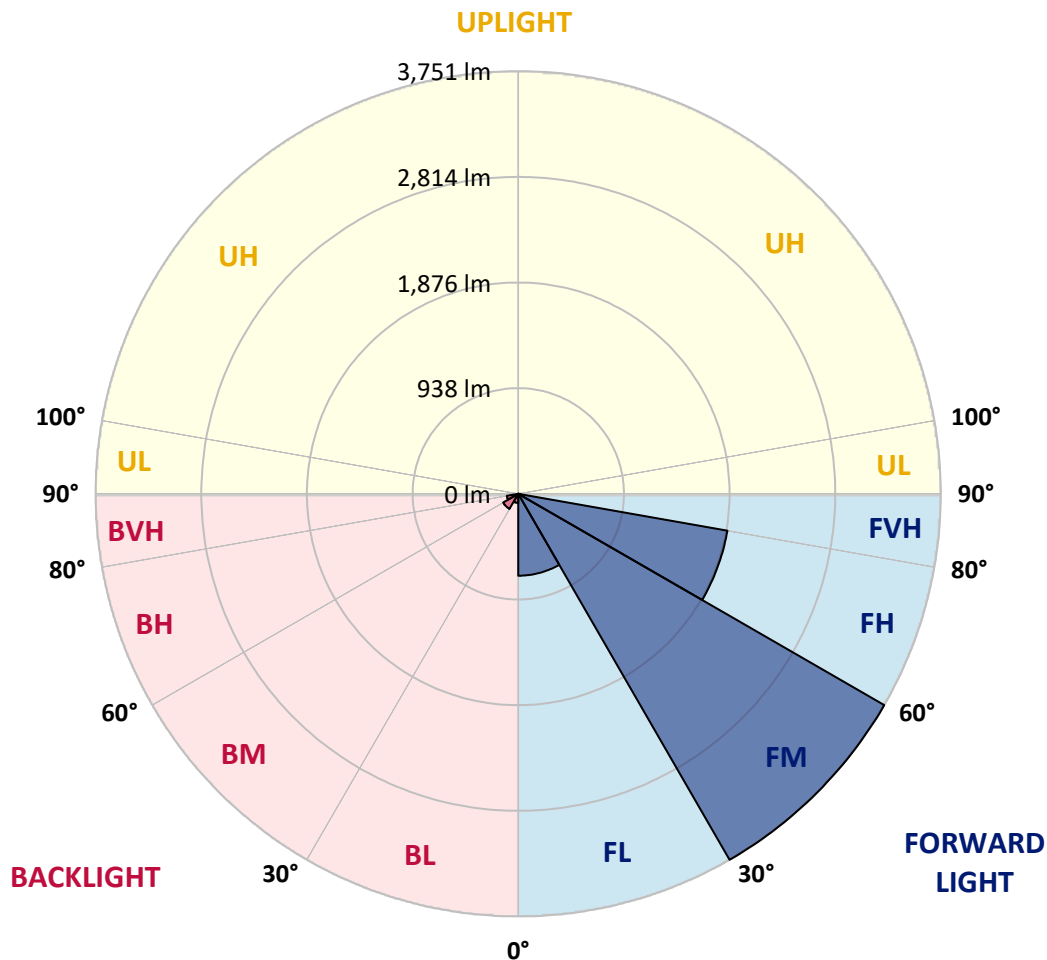


REPORT NUMBER: P595217
 CATALOG NUMBER: IST-PA1D-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.0	10.8			
FM (30°-60°)	3751.5	55.8			
FH (60°-80°)	1885.6	28.0			G2/5000
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	80.6	1.2	B0/110		
BM (30°-60°)	154.6	2.3	B0/220		
BH (60°-80°)	102.8	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





REPORT NUMBER: P595217
 CATALOG NUMBER: IST-PA1D-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8
2.5°	1162.8	1166.8	1158.8	1140.6	1124.4	1086.1	1055.8	1001.3	942.8	942.8	872.1
5°	1300.1	1296.0	1292.0	1277.9	1265.8	1233.5	1193.1	1134.5	1043.7	1035.6	918.5
7.5°	1366.7	1362.7	1354.6	1348.5	1348.5	1326.3	1288.0	1227.4	1126.5	1118.4	960.9
10°	1445.4	1437.3	1437.3	1421.2	1417.2	1390.9	1370.7	1318.2	1207.2	1197.1	1009.4
12.5°	1538.3	1530.2	1532.2	1518.1	1512.0	1483.8	1455.5	1405.0	1294.0	1283.9	1065.9
15°	1590.8	1586.7	1598.8	1600.9	1604.9	1580.7	1554.4	1501.9	1390.9	1376.8	1132.5
17.5°	1621.0	1621.0	1635.2	1661.4	1691.7	1677.6	1657.4	1615.0	1489.8	1481.8	1203.2
20°	1679.6	1673.5	1697.8	1722.0	1760.3	1772.5	1766.4	1734.1	1608.9	1584.7	1279.9
22.5°	1776.5	1768.4	1790.6	1820.9	1867.3	1871.4	1875.4	1859.3	1730.1	1705.8	1360.6
25°	2004.6	1984.4	1964.2	1960.2	1978.4	1994.5	1982.4	1994.5	1867.3	1845.1	1447.4
27.5°	2448.7	2414.4	2317.5	2210.5	2135.8	2150.0	2111.6	2133.8	2024.8	1996.5	1528.2
30°	2874.7	2840.4	2761.6	2571.9	2400.3	2323.6	2267.0	2259.0	2186.3	2154.0	1621.0
32.5°	3171.4	3149.2	3096.7	2969.6	2755.6	2559.8	2450.8	2412.4	2402.3	2351.8	1740.2
35°	3373.3	3353.1	3316.8	3213.8	3056.4	2838.3	2650.6	2565.8	2642.5	2582.0	1875.4
37.5°	3494.4	3480.3	3439.9	3369.3	3284.5	3141.2	2898.9	2763.7	2884.8	2828.3	2049.0
40°	3583.3	3546.9	3518.7	3464.2	3435.9	3389.5	3181.5	2969.6	3147.2	3088.7	2220.6
42.5°	3591.3	3575.2	3553.0	3520.7	3524.7	3555.0	3482.3	3207.8	3411.7	3357.2	2402.3
45°	3589.3	3573.2	3557.0	3524.7	3544.9	3658.0	3724.6	3458.1	3670.1	3613.5	2594.1
47.5°	3530.8	3518.7	3522.7	3522.7	3548.9	3702.4	3912.3	3712.5	3928.5	3874.0	2826.2
50°	3324.9	3337.0	3417.7	3460.1	3506.6	3704.4	4043.5	3978.9	4207.1	4168.7	3050.3
52.5°	2672.8	2741.5	3068.5	3292.6	3427.8	3664.0	4128.3	4259.5	4560.3	4501.8	3304.7
55°	2043.0	2047.0	2361.9	2882.8	3272.4	3591.3	4176.8	4449.3	4828.8	4796.5	3528.8
57.5°	1657.4	1655.4	1810.8	2279.2	2868.6	3476.3	4188.9	4588.6	5113.5	5052.9	3787.2
60°	1354.6	1346.5	1439.4	1728.0	2343.8	3205.8	4144.5	4701.6	5406.2	5384.0	4057.7
62.5°	979.1	987.2	1110.3	1334.4	1806.8	2707.1	4049.6	4736.0	5759.5	5737.3	4360.5
65°	563.2	587.5	722.7	960.9	1384.9	2117.7	3779.1	4709.7	6104.7	6102.7	4641.1
67.5°	282.6	284.6	357.3	537.0	930.6	1584.7	3181.5	4544.2	6391.3	6346.9	4802.6
70°	181.7	185.7	209.9	276.6	514.8	1098.2	2430.6	4075.8	6211.7	6195.5	4566.4
72.5°	139.3	143.3	163.5	181.7	268.5	623.8	1645.3	3167.4	5186.1	5141.7	3561.1
75°	109.0	111.0	131.2	147.4	179.7	292.7	825.7	1974.3	3341.0	3225.9	2026.8
77.5°	86.8	88.8	98.9	117.1	137.3	163.5	244.3	888.2	1358.6	1213.3	658.1
80°	56.5	58.5	74.7	90.8	117.1	107.0	94.9	256.4	290.7	262.4	117.1
82.5°	32.3	34.3	50.5	72.7	88.8	60.6	54.5	74.7	68.6	66.6	36.3
85°	10.1	10.1	34.3	50.5	40.4	18.2	34.3	26.2	22.2	20.2	12.1
87.5°	2.0	2.0	16.1	18.2	6.1	2.0	4.0	6.1	8.1	10.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595217
 CATALOG NUMBER: IST-PA1D-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8	835.8
2.5°	837.8	797.4	722.7	658.1	595.5	541.0	502.7	468.3	444.1	438.1	428.0
5°	843.8	765.1	621.8	500.6	395.7	310.9	262.4	230.1	214.0	203.9	203.9
7.5°	849.9	732.8	526.9	365.4	250.3	189.8	159.5	145.3	139.3	137.3	135.3
10°	862.0	708.6	446.1	262.4	171.6	143.3	131.2	125.2	121.1	119.1	119.1
12.5°	882.2	688.4	371.4	193.8	141.3	127.2	119.1	111.0	107.0	105.0	105.0
15°	908.4	674.3	306.8	155.4	129.2	115.1	105.0	96.9	90.8	88.8	88.8
17.5°	944.8	664.2	252.3	137.3	119.1	103.0	90.8	82.8	76.7	74.7	74.7
20°	981.1	664.2	207.9	127.2	109.0	90.8	78.7	68.6	62.6	60.6	60.6
22.5°	1029.6	662.1	173.6	117.1	96.9	78.7	66.6	54.5	50.5	48.4	48.4
25°	1069.9	662.1	149.4	107.0	84.8	68.6	54.5	44.4	40.4	38.4	38.4
27.5°	1118.4	656.1	127.2	94.9	72.7	56.5	44.4	36.3	32.3	30.3	30.3
30°	1160.8	648.0	113.0	84.8	62.6	46.4	36.3	28.3	26.2	26.2	26.2
32.5°	1231.4	642.0	100.9	72.7	52.5	38.4	28.3	22.2	20.2	20.2	20.2
35°	1316.2	642.0	92.9	62.6	44.4	32.3	22.2	18.2	16.1	16.1	16.1
37.5°	1427.2	648.0	82.8	54.5	36.3	26.2	18.2	14.1	12.1	12.1	12.1
40°	1544.3	662.1	74.7	48.4	32.3	20.2	14.1	10.1	8.1	10.1	10.1
42.5°	1683.6	676.3	66.6	42.4	26.2	16.1	10.1	6.1	4.0	6.1	6.1
45°	1820.9	690.4	62.6	36.3	22.2	12.1	6.1	4.0	2.0	4.0	4.0
47.5°	1990.5	724.7	58.5	32.3	18.2	10.1	4.0	2.0	0.0	2.0	2.0
50°	2186.3	763.1	52.5	26.2	14.1	8.1	4.0	0.0	0.0	0.0	0.0
52.5°	2374.0	795.4	46.4	22.2	12.1	6.1	2.0	0.0	0.0	0.0	0.0
55°	2561.8	815.6	40.4	18.2	10.1	6.1	2.0	0.0	0.0	0.0	0.0
57.5°	2763.7	827.7	36.3	16.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0
60°	2987.7	827.7	30.3	14.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3236.0	803.5	28.3	12.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
65°	3437.9	716.7	24.2	10.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3446.0	567.3	22.2	8.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
70°	3072.5	387.6	18.2	6.1	4.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	2299.3	207.9	16.1	6.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0
75°	1239.5	80.7	10.1	6.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0
77.5°	361.4	40.4	6.1	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
80°	66.6	20.2	4.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.2	8.1	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	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)