

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: P595138

Luminaire Tested: **IST-PA1C-740-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595138
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-PA1C-740-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 4719 lumens
Efficiency: N/A
Efficacy: 97.7 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

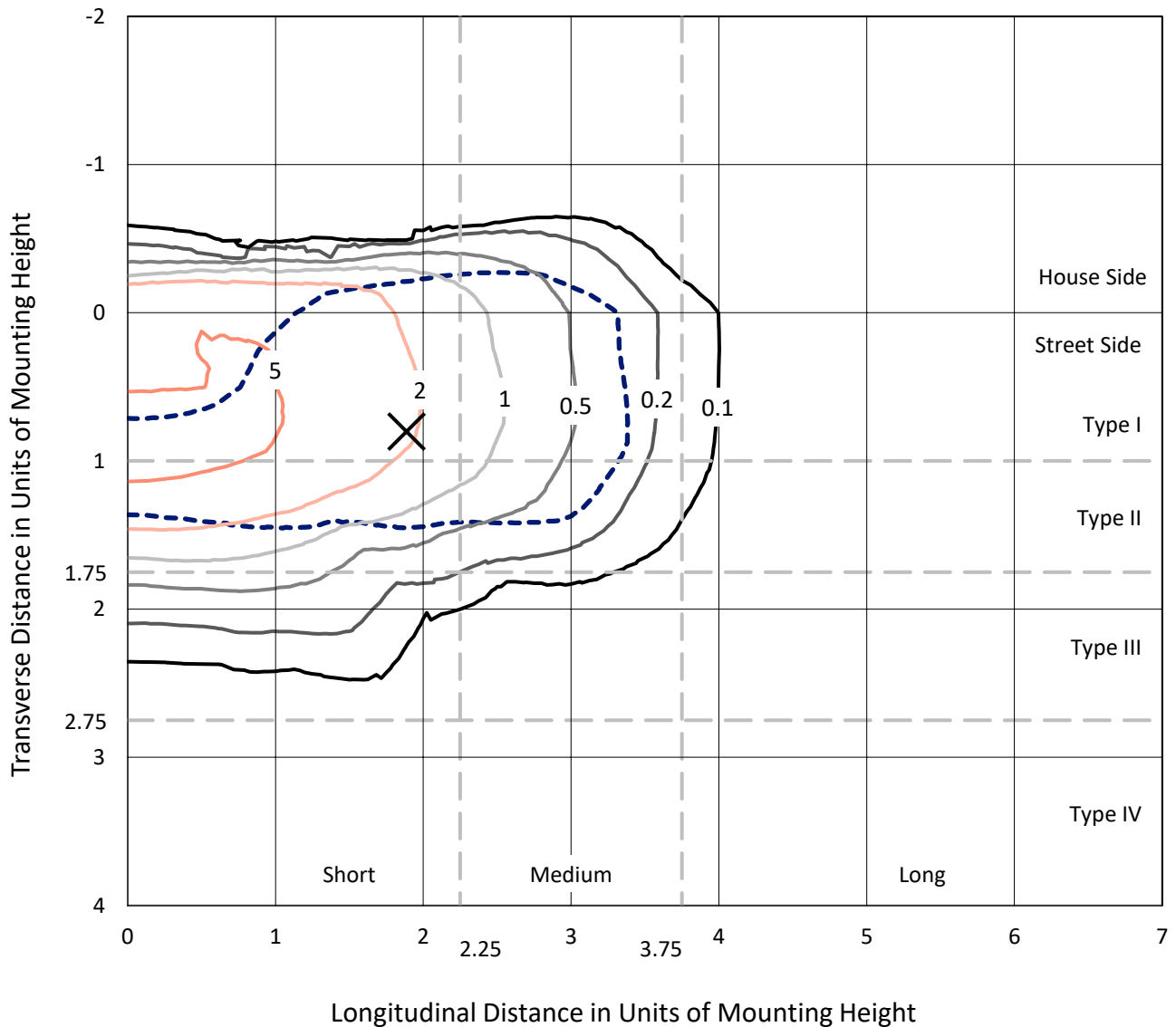
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595138
 CATALOG NUMBER: IST-PA1C-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

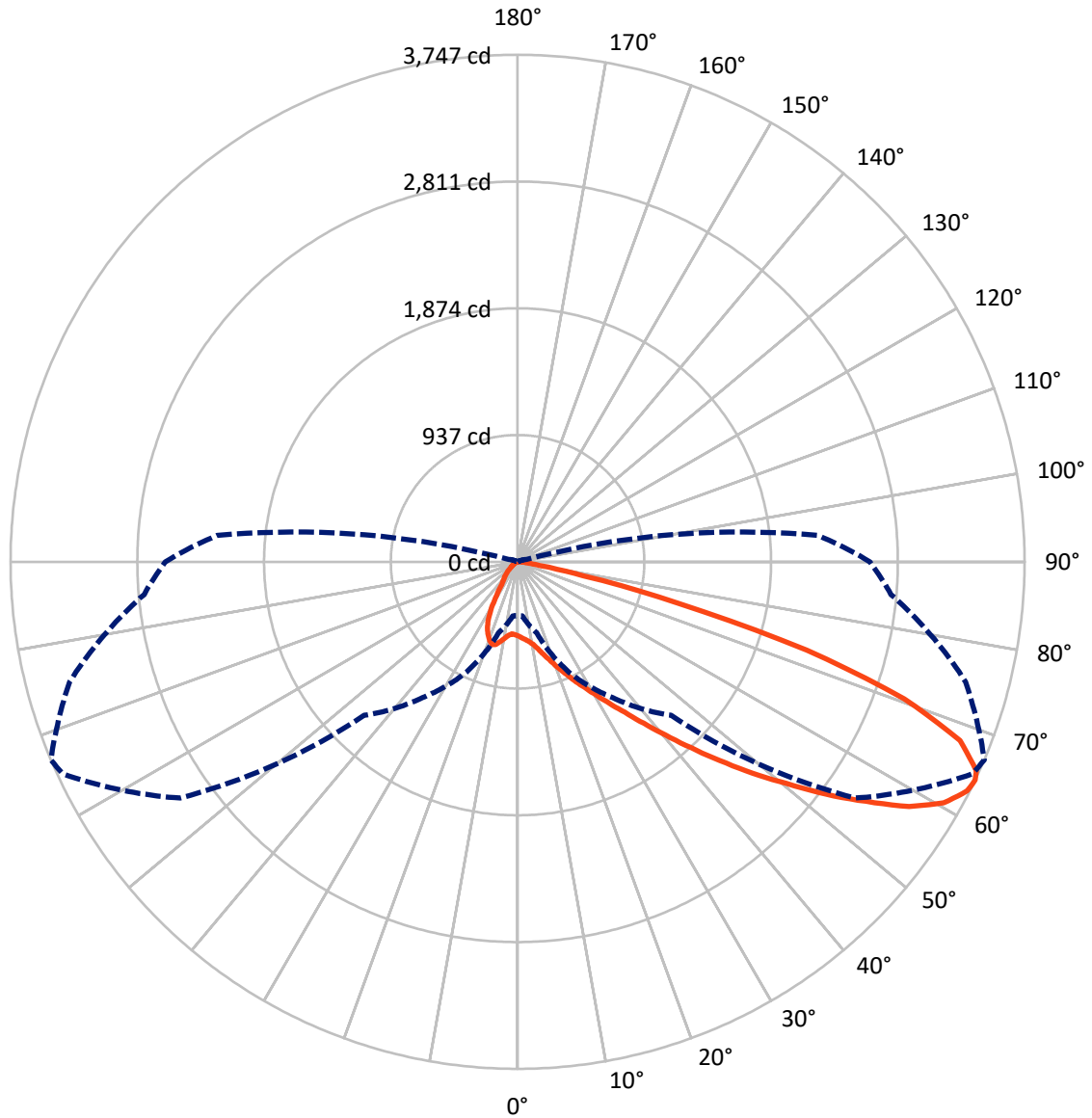
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P595138
CATALOG NUMBER: IST-PA1C-740-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P595138
 CATALOG NUMBER: IST-PA1C-740-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.6	0.0	603.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4115.3	0.0	4115.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	4719.0	0.0	4719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.1
10°-20°	153.5	3.3
20°-30°	278.5	5.9
30°-40°	533.6	11.3
40°-50°	983.5	20.8
50°-60°	1270.2	26.9
60°-70°	1040.5	22.0
70°-80°	382.5	8.1
80°-90°	24.7	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°	4719.0	100.0
0°-180°	4719.0	100.0

Coefficient of Utilization

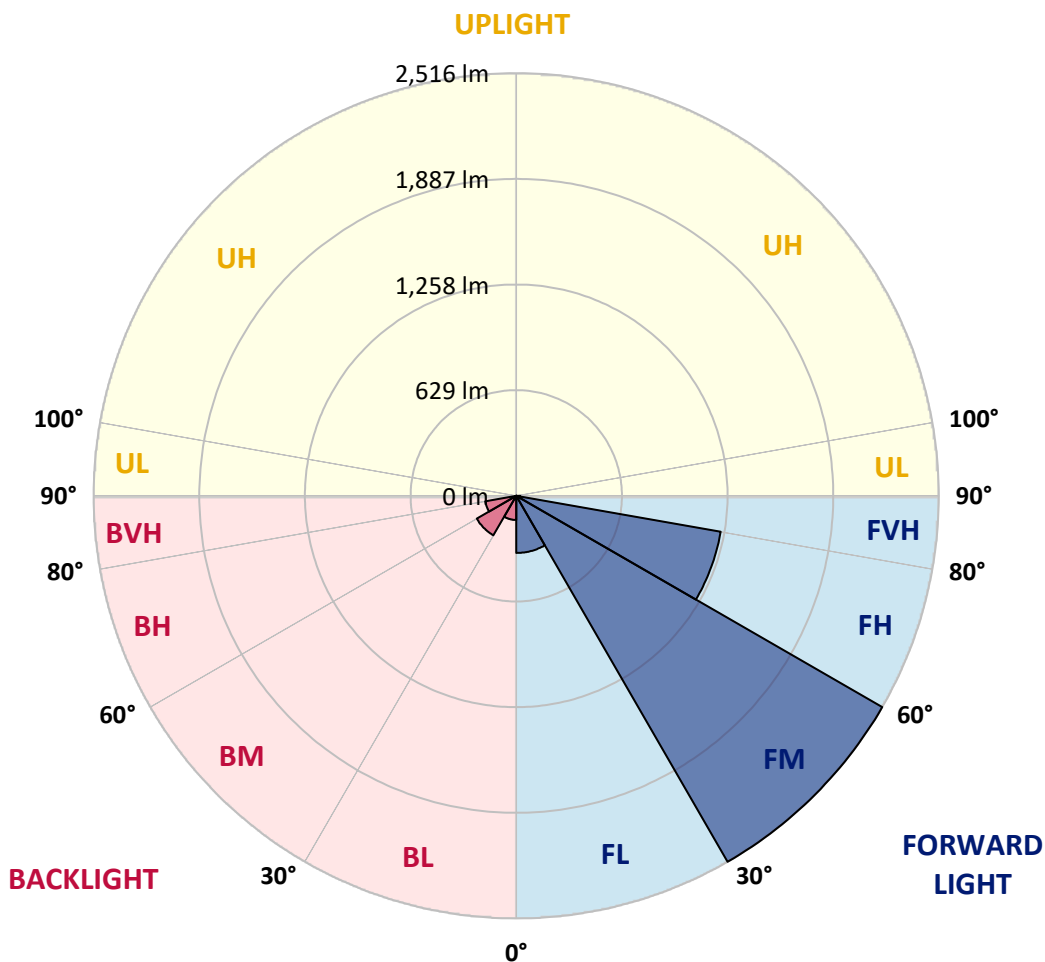


REPORT NUMBER: P595138
 CATALOG NUMBER: IST-PA1C-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.2	7.2			
FM (30°-60°)	2515.9	53.3			
FH (60°-80°)	1235.6	26.2			G1/1800
FVH (80°-90°)	23.6	0.5			G1/100
BL (0°-30°)	143.9	3.0	B1/500		
BM (30°-60°)	271.4	5.8	B1/1000		
BH (60°-80°)	187.3	4.0	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-G1
 Type II Short





REPORT NUMBER: P595138

CATALOG NUMBER: IST-PA1C-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3
2.5°	567.8	567.8	571.0	569.4	569.4	566.2	561.3	562.9	561.3	559.7	554.8
5°	558.1	559.7	561.3	564.5	571.0	574.3	574.3	575.9	575.9	574.3	567.8
7.5°	553.2	556.4	559.7	562.9	571.0	575.9	584.0	593.7	593.7	595.4	588.9
10°	571.0	574.3	579.1	584.0	592.1	600.2	606.7	618.1	618.1	621.3	619.7
12.5°	608.3	608.3	610.0	613.2	624.6	634.3	645.7	655.4	657.0	658.6	653.8
15°	653.8	653.8	655.4	655.4	661.9	676.5	697.6	707.3	705.7	704.1	694.3
17.5°	705.7	705.7	705.7	707.3	710.6	718.7	743.0	762.5	760.8	759.2	739.8
20°	754.4	757.6	760.8	762.5	765.7	772.2	798.2	820.9	825.7	819.2	785.2
22.5°	809.5	811.1	812.8	817.6	825.7	829.0	854.9	889.0	893.9	885.8	840.3
25°	864.7	867.9	872.8	879.3	887.4	903.6	921.4	966.9	971.7	962.0	900.4
27.5°	986.3	984.7	970.1	958.8	960.4	971.7	996.1	1044.7	1049.6	1039.9	960.4
30°	1194.0	1174.5	1146.9	1096.6	1048.0	1052.8	1086.9	1134.0	1142.1	1129.1	1026.9
32.5°	1489.2	1469.8	1401.6	1291.3	1184.3	1148.6	1192.4	1237.8	1247.5	1232.9	1104.8
35°	1776.4	1771.5	1706.6	1573.6	1391.9	1292.9	1304.3	1362.7	1365.9	1348.1	1202.1
37.5°	2131.7	2113.8	2024.6	1875.3	1661.2	1484.4	1451.9	1507.1	1515.2	1494.1	1320.5
40°	2366.9	2360.4	2306.9	2201.4	1971.0	1748.8	1632.0	1685.5	1683.9	1653.1	1456.8
42.5°	2503.1	2506.4	2503.1	2452.9	2321.5	2066.8	1870.5	1873.7	1878.6	1846.1	1614.2
45°	2595.6	2595.6	2600.5	2641.0	2590.8	2446.4	2160.9	2087.9	2094.3	2044.0	1778.0
47.5°	2594.0	2603.7	2629.7	2723.8	2791.9	2800.0	2524.2	2337.7	2334.4	2258.2	1946.7
50°	2418.8	2412.3	2519.4	2730.3	2934.7	3092.0	2868.2	2602.1	2574.5	2480.4	2121.9
52.5°	2024.6	2045.7	2224.1	2534.0	2968.7	3289.9	3165.0	2890.9	2855.2	2701.1	2276.0
55°	1680.7	1703.4	1877.0	2180.3	2783.8	3359.7	3364.6	3197.5	3126.1	2892.5	2435.0
57.5°	1262.1	1305.9	1562.2	1847.8	2378.2	3186.1	3436.0	3491.1	3413.2	3077.4	2564.8
60°	806.3	832.2	1119.4	1471.4	1927.2	2731.9	3421.4	3661.4	3619.3	3246.1	2673.5
62.5°	527.2	541.8	739.8	1108.0	1468.1	2058.7	3247.8	3729.6	3729.6	3359.7	2754.6
64°	397.5	400.7	541.8	900.4	1224.8	1604.4	3043.4	3708.5	3747.4	3427.8	2770.8
65°	314.7	316.3	423.4	747.9	1099.9	1315.7	2864.9	3663.1	3726.3	3453.8	2780.6
67.5°	220.6	225.5	274.2	431.5	788.4	759.2	2123.5	3448.9	3526.8	3461.9	2767.6
70°	191.4	197.9	230.4	282.3	562.9	441.3	1129.1	2939.5	3032.0	3225.1	2576.2
72.5°	146.0	154.1	193.0	238.5	395.8	298.5	436.4	2087.9	2233.9	2493.4	2126.8
75°	105.4	108.7	142.8	194.7	277.4	230.4	188.2	1077.2	1224.8	1471.4	1322.1
77.5°	66.5	71.4	97.3	146.0	248.2	175.2	111.9	392.6	494.8	640.8	577.5
80°	38.9	40.6	58.4	100.6	167.1	129.8	71.4	139.5	168.7	238.5	154.1
82.5°	22.7	24.3	37.3	68.1	108.7	100.6	45.4	71.4	79.5	90.8	32.4
85°	8.1	8.1	26.0	40.6	58.4	50.3	26.0	37.3	40.6	50.3	9.7
87.5°	1.6	1.6	13.0	21.1	21.1	8.1	13.0	16.2	19.5	27.6	3.2
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: P595138
 CATALOG NUMBER: IST-PA1C-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3	548.3
2.5°	553.2	548.3	543.5	537.0	532.1	522.4	517.5	511.0	509.4	506.1	504.5
5°	566.2	558.1	546.7	530.5	520.7	506.1	496.4	486.7	485.1	481.8	480.2
7.5°	584.0	575.9	561.3	543.5	527.2	512.6	501.3	486.7	472.1	460.7	460.7
10°	613.2	603.5	584.0	567.8	548.3	517.5	464.0	415.3	384.5	365.0	358.5
12.5°	648.9	635.9	614.8	595.4	558.1	460.7	378.0	314.7	262.8	238.5	233.6
15°	686.2	674.9	653.8	624.6	512.6	384.5	275.8	178.4	128.2	105.4	108.7
17.5°	726.8	710.6	686.2	627.8	451.0	287.1	147.6	90.8	77.9	74.6	74.6
20°	769.0	747.9	723.5	592.1	371.5	165.5	84.4	68.1	63.3	58.4	60.0
22.5°	814.4	788.4	751.1	538.6	266.1	89.2	64.9	55.2	48.7	47.0	47.0
25°	863.0	825.7	778.7	476.9	154.1	68.1	53.5	43.8	38.9	37.3	35.7
27.5°	915.0	867.9	785.2	395.8	87.6	56.8	42.2	34.1	29.2	27.6	27.6
30°	962.0	910.1	770.6	293.6	66.5	47.0	34.1	26.0	22.7	22.7	22.7
32.5°	1025.3	957.1	725.2	183.3	53.5	37.3	26.0	21.1	17.8	17.8	17.8
35°	1108.0	1026.9	679.7	97.3	43.8	30.8	21.1	16.2	14.6	14.6	14.6
37.5°	1221.6	1119.4	639.2	61.6	35.7	24.3	16.2	13.0	11.4	11.4	11.4
40°	1338.4	1229.7	582.4	47.0	29.2	19.5	13.0	9.7	8.1	8.1	9.7
42.5°	1484.4	1357.8	517.5	40.6	24.3	16.2	9.7	6.5	4.9	6.5	6.5
45°	1632.0	1492.5	426.7	34.1	21.1	13.0	6.5	3.2	3.2	4.9	4.9
47.5°	1784.5	1635.2	330.9	29.2	17.8	9.7	4.9	1.6	1.6	3.2	3.2
50°	1941.8	1776.4	246.6	26.0	14.6	8.1	3.2	1.6	0.0	1.6	1.6
52.5°	2099.2	1912.6	191.4	22.7	13.0	6.5	1.6	0.0	0.0	0.0	1.6
55°	2245.2	2035.9	152.5	19.5	11.4	4.9	1.6	0.0	0.0	0.0	0.0
57.5°	2368.5	2126.8	121.7	17.8	9.7	3.2	1.6	0.0	0.0	0.0	0.0
60°	2485.3	2198.2	94.1	14.6	8.1	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2568.0	2225.7	76.2	13.0	6.5	3.2	0.0	0.0	0.0	0.0	0.0
64°	2603.7	2229.0	66.5	11.4	6.5	3.2	1.6	0.0	0.0	0.0	0.0
65°	2624.8	2219.3	61.6	11.4	6.5	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2629.7	2165.7	47.0	9.7	4.9	1.6	1.6	0.0	0.0	0.0	0.0
70°	2486.9	1979.2	34.1	6.5	3.2	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2078.1	1511.9	22.7	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1297.8	653.8	13.0	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	537.0	197.9	8.1	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
80°	123.3	47.0	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	29.2	8.1	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.5	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	1.6	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)