

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: P595352

Luminaire Tested: **IST-PA1F-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595352
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-PA1F-727-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 7603 lumens
Efficiency: N/A
Efficacy: 81.3 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

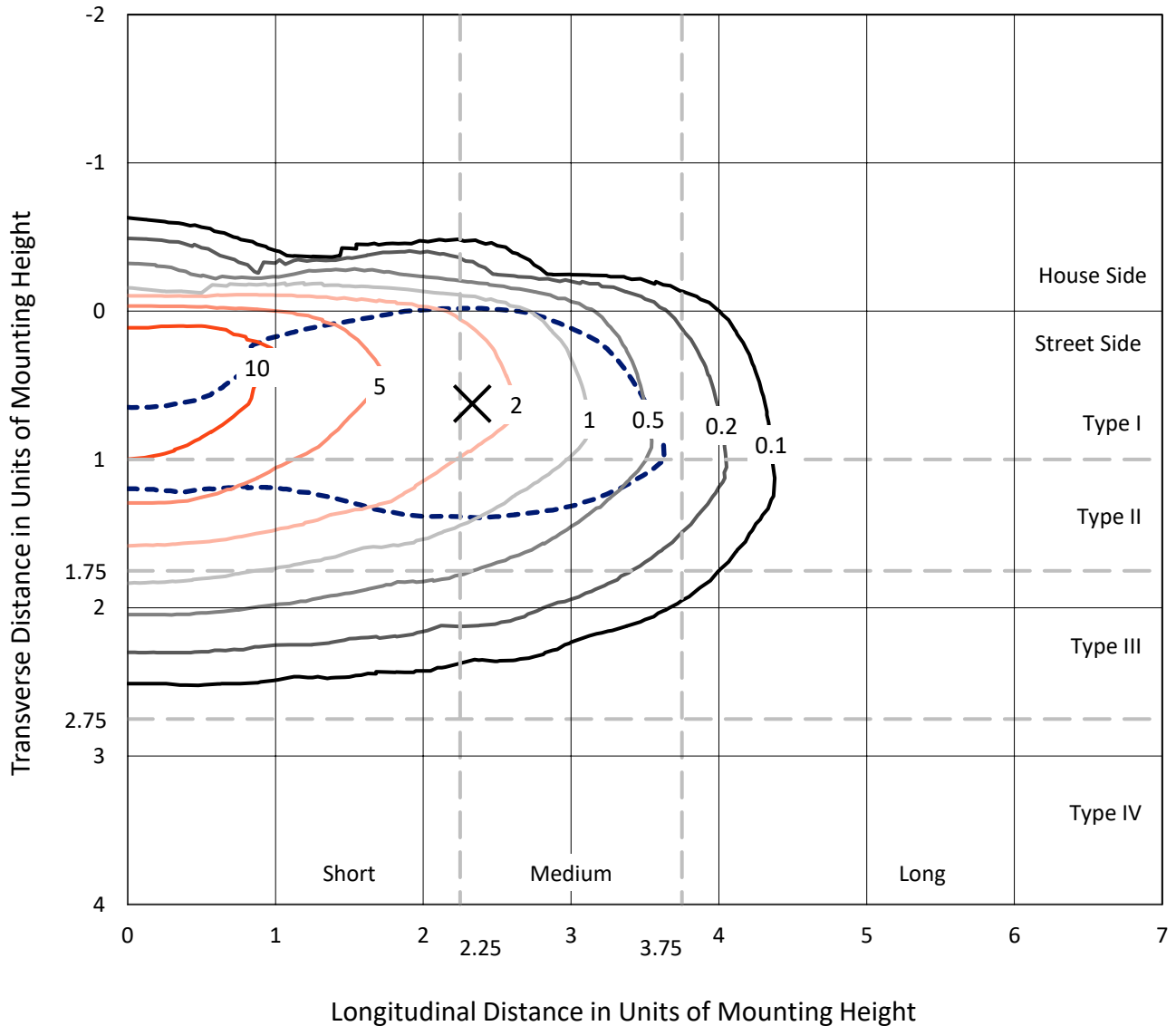
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

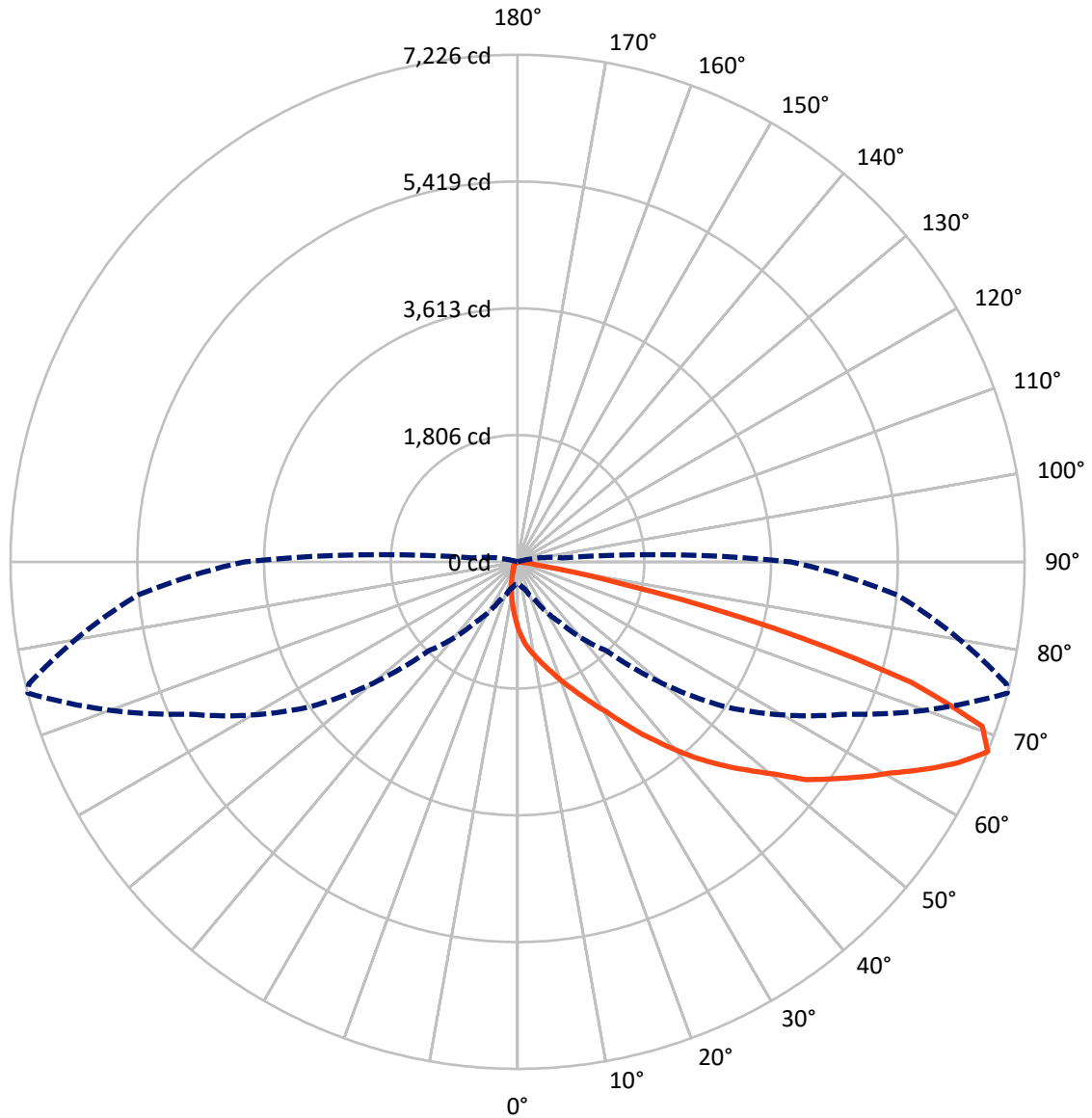
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.9 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	383.3	0.0	383.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7219.7	0.0	7219.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	7603.0	0.0	7603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.1
10°-20°	275.0	3.6
20°-30°	552.8	7.3
30°-40°	1045.7	13.8
40°-50°	1564.3	20.6
50°-60°	1806.1	23.8
60°-70°	1600.9	21.1
70°-80°	647.1	8.5
80°-90°	25.8	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°	7603.0	100.0
0°-180°	7603.0	100.0

Coefficient of Utilization

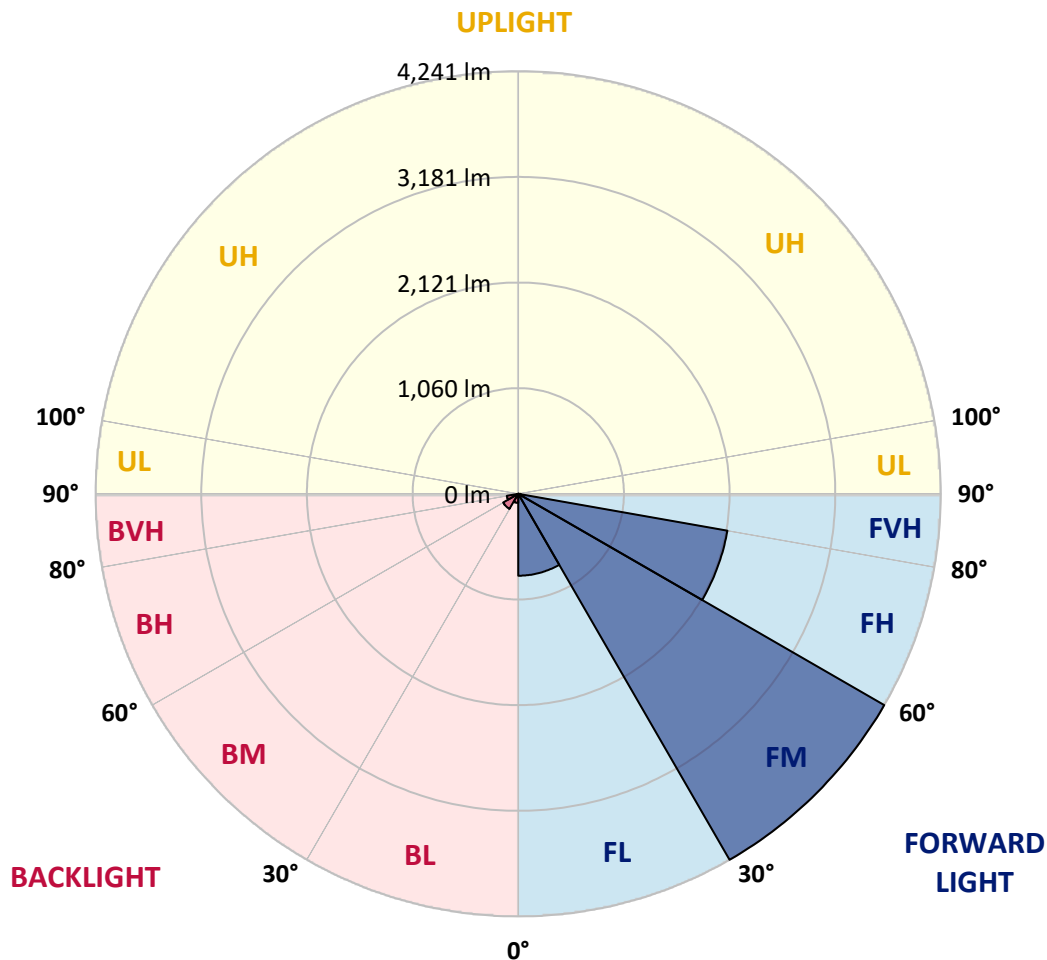


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.0	10.8			
FM (30°-60°)	4241.3	55.8			
FH (60°-80°)	2131.8	28.0			G2/5000
FVH (80°-90°)	24.7	0.3			G1/100
BL (0°-30°)	91.1	1.2	B0/110		
BM (30°-60°)	174.8	2.3	B0/220		
BH (60°-80°)	116.2	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°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9
2.5°	1314.6	1319.2	1310.0	1289.5	1271.2	1227.9	1193.6	1132.0	1065.8	1065.8	986.0
5°	1469.8	1465.2	1460.7	1444.7	1431.0	1394.5	1348.8	1282.7	1180.0	1170.8	1038.4
7.5°	1545.1	1540.6	1531.4	1524.6	1524.6	1499.5	1456.1	1387.6	1273.5	1264.4	1086.4
10°	1634.1	1625.0	1625.0	1606.7	1602.2	1572.5	1549.7	1490.3	1364.8	1353.4	1141.2
12.5°	1739.1	1730.0	1732.3	1716.3	1709.4	1677.5	1645.5	1588.5	1463.0	1451.5	1205.1
15°	1798.5	1793.9	1807.6	1809.9	1814.4	1787.0	1757.4	1698.0	1572.5	1556.5	1280.4
17.5°	1832.7	1832.7	1848.7	1878.3	1912.6	1896.6	1873.8	1825.8	1684.3	1675.2	1360.3
20°	1898.9	1892.0	1919.4	1946.8	1990.2	2003.9	1997.0	1960.5	1819.0	1791.6	1447.0
22.5°	2008.4	1999.3	2024.4	2058.6	2111.1	2115.7	2120.3	2102.0	1955.9	1928.5	1538.3
25°	2266.3	2243.5	2220.7	2216.1	2236.7	2254.9	2241.2	2254.9	2111.1	2086.0	1636.4
27.5°	2768.4	2729.6	2620.1	2499.1	2414.7	2430.7	2387.3	2412.4	2289.1	2257.2	1727.7
30°	3250.0	3211.2	3122.2	2907.7	2713.7	2626.9	2563.0	2553.9	2471.7	2435.2	1832.7
32.5°	3585.5	3560.4	3501.1	3357.3	3115.3	2894.0	2770.7	2727.4	2715.9	2658.9	1967.3
35°	3813.7	3790.9	3749.8	3633.4	3455.4	3208.9	2996.7	2900.8	2987.5	2919.1	2120.3
37.5°	3950.7	3934.7	3889.0	3809.2	3713.3	3551.3	3277.4	3124.5	3261.4	3197.5	2316.5
40°	4051.1	4010.0	3978.1	3916.4	3884.5	3832.0	3596.9	3357.3	3558.1	3491.9	2510.5
42.5°	4060.2	4042.0	4016.9	3980.3	3984.9	4019.1	3937.0	3626.6	3857.1	3795.5	2715.9
45°	4057.9	4039.7	4021.4	3984.9	4007.7	4135.5	4210.8	3909.6	4149.2	4085.3	2932.8
47.5°	3991.7	3978.1	3982.6	3982.6	4012.3	4185.7	4423.1	4197.2	4441.4	4379.7	3195.2
50°	3759.0	3772.6	3863.9	3911.9	3964.4	4188.0	4571.5	4498.4	4756.3	4713.0	3448.6
52.5°	3021.8	3099.4	3469.1	3722.4	3875.4	4142.4	4667.3	4815.7	5155.7	5089.5	3736.1
55°	2309.7	2314.3	2670.3	3259.1	3699.6	4060.2	4722.1	5030.2	5459.3	5422.8	3989.5
57.5°	1873.8	1871.5	2047.2	2576.7	3243.2	3930.1	4735.8	5187.7	5781.1	5712.6	4281.6
60°	1531.4	1522.3	1627.3	1953.7	2649.8	3624.3	4685.6	5315.5	6112.0	6086.9	4587.4
62.5°	1106.9	1116.0	1255.3	1508.6	2042.7	3060.6	4578.3	5354.3	6511.4	6486.3	4929.8
65°	636.8	664.2	817.1	1086.4	1565.7	2394.1	4272.5	5324.6	6901.7	6899.4	5247.0
67.5°	319.5	321.8	404.0	607.1	1052.1	1791.6	3596.9	5137.5	7225.8	7175.6	5429.6
70°	205.4	210.0	237.4	312.7	582.0	1241.6	2747.9	4608.0	7022.6	7004.4	5162.6
72.5°	157.5	162.0	184.9	205.4	303.5	705.2	1860.1	3580.9	5863.2	5813.0	4026.0
75°	123.2	125.5	148.3	166.6	203.1	330.9	933.5	2232.1	3777.2	3647.1	2291.4
77.5°	98.1	100.4	111.8	132.4	155.2	184.9	276.2	1004.2	1536.0	1371.7	744.0
80°	63.9	66.2	84.4	102.7	132.4	121.0	107.3	289.9	328.7	296.7	132.4
82.5°	36.5	38.8	57.1	82.2	100.4	68.5	61.6	84.4	77.6	75.3	41.1
85°	11.4	11.4	38.8	57.1	45.6	20.5	38.8	29.7	25.1	22.8	13.7
87.5°	2.3	2.3	18.3	20.5	6.8	2.3	4.6	6.8	9.1	11.4	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°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9
2.5°	947.2	901.5	817.1	744.0	673.3	611.7	568.3	529.5	502.1	495.3	483.8
5°	954.0	865.0	702.9	566.0	447.3	351.5	296.7	260.2	241.9	230.5	230.5
7.5°	960.8	828.5	595.7	413.1	283.0	214.5	180.3	164.3	157.5	155.2	152.9
10°	974.5	801.1	504.4	296.7	194.0	162.0	148.3	141.5	136.9	134.7	134.7
12.5°	997.4	778.3	419.9	219.1	159.8	143.8	134.7	125.5	121.0	118.7	118.7
15°	1027.0	762.3	346.9	175.7	146.1	130.1	118.7	109.6	102.7	100.4	100.4
17.5°	1068.1	750.9	285.3	155.2	134.7	116.4	102.7	93.6	86.7	84.4	84.4
20°	1109.2	750.9	235.1	143.8	123.2	102.7	89.0	77.6	70.8	68.5	68.5
22.5°	1164.0	748.6	196.3	132.4	109.6	89.0	75.3	61.6	57.1	54.8	54.8
25°	1209.6	748.6	168.9	121.0	95.9	77.6	61.6	50.2	45.6	43.4	43.4
27.5°	1264.4	741.7	143.8	107.3	82.2	63.9	50.2	41.1	36.5	34.2	34.2
30°	1312.3	732.6	127.8	95.9	70.8	52.5	41.1	32.0	29.7	29.7	29.7
32.5°	1392.2	725.8	114.1	82.2	59.3	43.4	32.0	25.1	22.8	22.8	22.8
35°	1488.1	725.8	105.0	70.8	50.2	36.5	25.1	20.5	18.3	18.3	18.3
37.5°	1613.6	732.6	93.6	61.6	41.1	29.7	20.5	16.0	13.7	13.7	13.7
40°	1746.0	748.6	84.4	54.8	36.5	22.8	16.0	11.4	9.1	11.4	11.4
42.5°	1903.4	764.6	75.3	47.9	29.7	18.3	11.4	6.8	4.6	6.8	6.8
45°	2058.6	780.5	70.8	41.1	25.1	13.7	6.8	4.6	2.3	4.6	4.6
47.5°	2250.4	819.3	66.2	36.5	20.5	11.4	4.6	2.3	0.0	2.3	2.3
50°	2471.7	862.7	59.3	29.7	16.0	9.1	4.6	0.0	0.0	0.0	0.0
52.5°	2684.0	899.2	52.5	25.1	13.7	6.8	2.3	0.0	0.0	0.0	0.0
55°	2896.2	922.1	45.6	20.5	11.4	6.8	2.3	0.0	0.0	0.0	0.0
57.5°	3124.5	935.7	41.1	18.3	9.1	4.6	2.3	0.0	0.0	0.0	0.0
60°	3377.8	935.7	34.2	16.0	6.8	4.6	2.3	0.0	0.0	0.0	0.0
62.5°	3658.5	908.4	32.0	13.7	6.8	4.6	2.3	0.0	0.0	0.0	0.0
65°	3886.8	810.2	27.4	11.4	6.8	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	3895.9	641.3	25.1	9.1	6.8	4.6	2.3	0.0	0.0	0.0	0.0
70°	3473.7	438.2	20.5	6.8	4.6	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	2599.5	235.1	18.3	6.8	4.6	2.3	2.3	0.0	0.0	0.0	0.0
75°	1401.3	91.3	11.4	6.8	4.6	2.3	2.3	0.0	0.0	0.0	0.0
77.5°	408.5	45.6	6.8	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0
80°	75.3	22.8	4.6	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	20.5	9.1	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.1	4.6	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	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)