

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: P595034

Luminaire Tested: **IST-PA1B-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-727-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

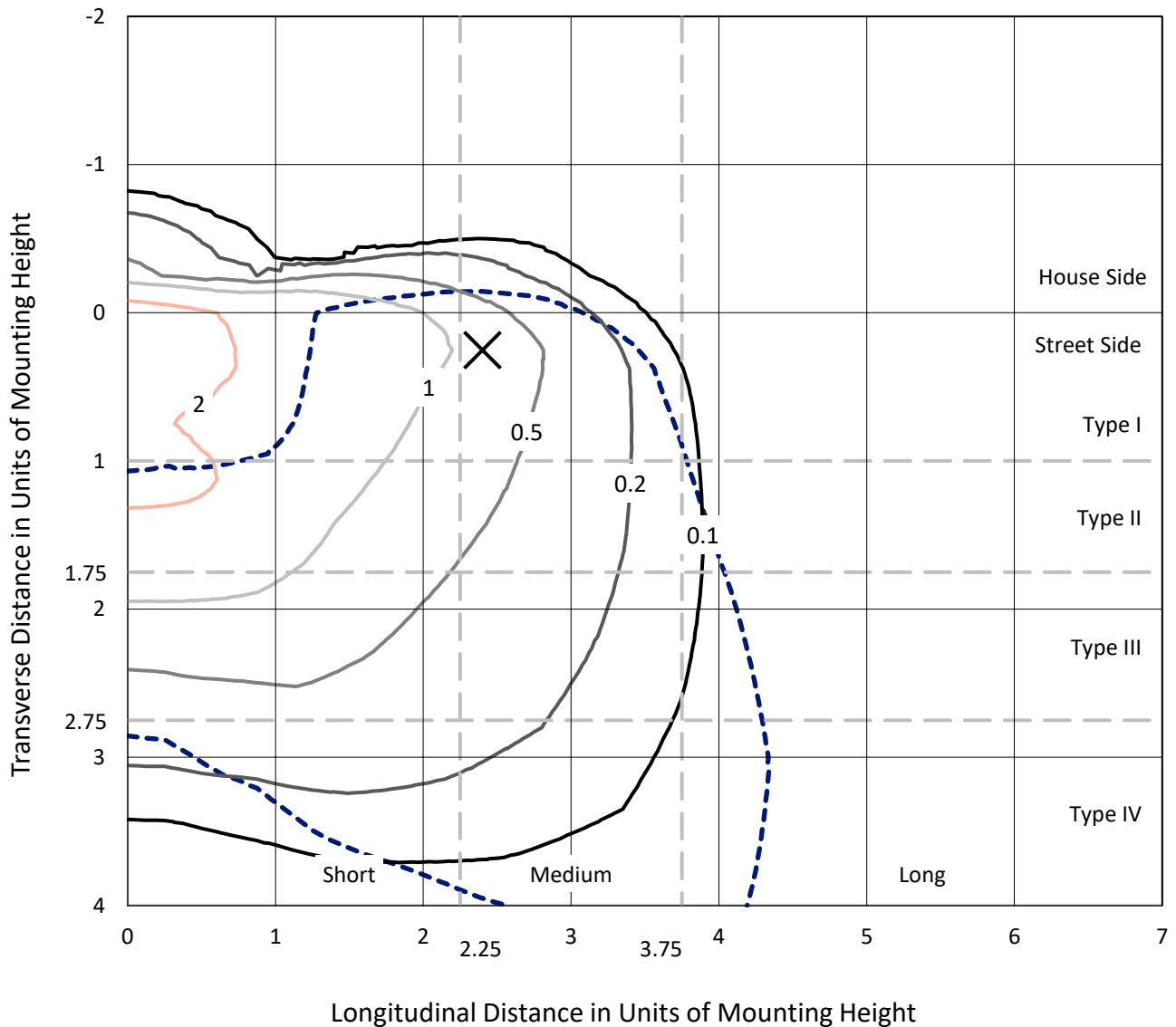
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

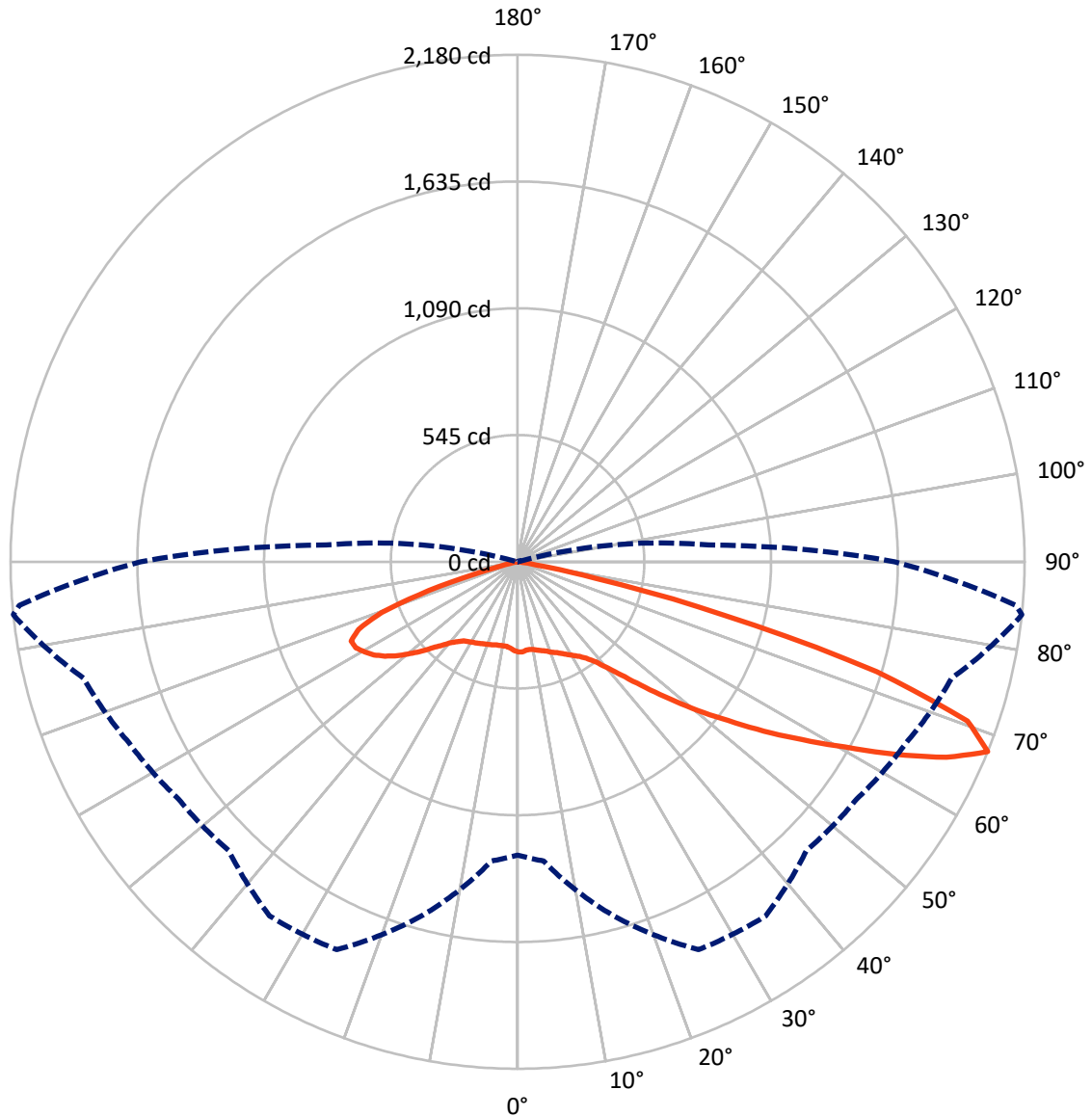
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	270.5	0.0	270.5
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2836.5	0.0	2836.5
	% Fixture	91.3	0.0	91.3
Total	Lumens	3107.0	0.0	3107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	1.1
10°-20°	90.8	2.9
20°-30°	145.4	4.7
30°-40°	209.2	6.7
40°-50°	359.1	11.6
50°-60°	627.5	20.2
60°-70°	898.6	28.9
70°-80°	675.4	21.7
80°-90°	66.3	2.1
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°	3107.0	100.0
0°-180°	3107.0	100.0

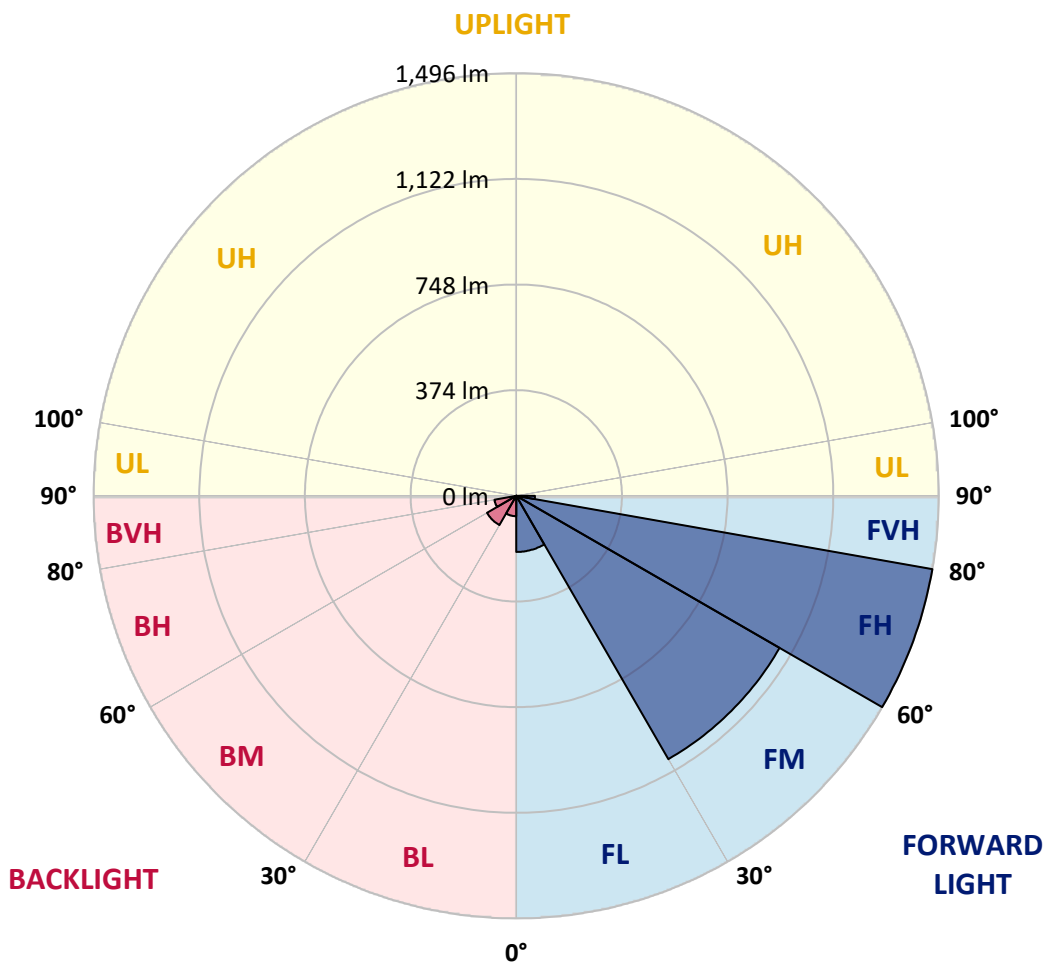


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.6	6.4			
FM (30°-60°)	1076.2	34.6			
FH (60°-80°)	1495.5	48.1			G1/1800
FVH (80°-90°)	66.1	2.1			G1/100
BL (0°-30°)	72.2	2.3	B0/110		
BM (30°-60°)	119.6	3.9	B0/220		
BH (60°-80°)	78.4	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	409.1	411.2	412.3	407.0	407.0	402.8	396.5	394.4	391.3	388.1	387.1
5°	430.1	433.3	432.2	425.9	422.8	414.4	406.0	397.6	389.2	381.8	381.8
7.5°	454.2	455.3	452.1	441.6	435.4	423.8	411.2	401.8	391.3	380.8	378.7
10°	475.2	474.2	470.0	459.5	447.9	433.3	419.6	409.1	396.5	383.9	382.9
12.5°	489.9	490.9	485.7	471.0	459.5	442.7	429.1	418.6	403.9	390.2	387.1
15°	502.5	505.6	499.3	484.7	467.9	453.2	442.7	429.1	412.3	396.5	394.4
17.5°	514.0	515.1	509.8	493.0	477.3	464.7	453.2	440.6	423.8	403.9	401.8
20°	520.3	523.5	520.3	499.3	484.7	475.2	465.8	453.2	434.3	415.4	413.3
22.5°	524.5	527.7	526.6	503.5	490.9	483.6	475.2	463.7	445.8	423.8	421.7
25°	526.6	528.7	530.8	507.7	497.2	494.1	486.8	476.3	459.5	436.4	434.3
27.5°	529.8	531.9	534.0	513.0	508.8	505.6	503.5	495.1	475.2	451.1	447.9
30°	535.0	538.2	540.3	522.4	522.4	525.6	525.6	514.0	492.0	466.8	464.7
32.5°	541.3	542.4	546.5	531.9	537.1	544.5	542.4	530.8	507.7	484.7	481.5
35°	558.1	558.1	565.4	546.5	552.8	559.1	561.2	552.8	531.9	508.8	507.7
37.5°	599.0	599.0	605.3	574.9	573.8	580.1	587.5	587.5	566.5	545.5	543.4
40°	691.3	691.3	691.3	621.0	609.5	616.8	628.4	634.7	616.8	602.1	602.1
42.5°	845.5	846.6	830.8	706.0	656.7	669.3	681.9	695.5	686.1	675.6	673.5
45°	1005.0	999.7	997.6	830.8	740.6	734.3	750.1	773.1	776.3	770.0	774.2
47.5°	1114.1	1119.3	1122.5	986.1	858.1	815.1	829.8	862.3	881.2	880.1	886.4
50°	1220.0	1223.2	1226.3	1157.1	1013.4	916.9	926.3	970.4	996.6	1005.0	1009.2
52.5°	1312.3	1304.0	1317.6	1308.1	1178.1	1033.3	1033.3	1083.7	1130.9	1134.0	1133.0
55°	1339.6	1344.9	1385.8	1414.1	1347.0	1176.0	1155.0	1208.5	1258.8	1285.1	1285.1
57.5°	1400.5	1405.7	1455.0	1519.0	1469.7	1316.5	1285.1	1337.5	1392.1	1442.4	1449.8
60°	1480.2	1481.2	1533.7	1631.3	1563.1	1443.5	1417.2	1477.0	1531.6	1617.6	1641.7
62.5°	1523.2	1527.4	1599.8	1727.8	1680.6	1554.7	1548.4	1602.9	1673.2	1824.3	1846.3
65°	1457.1	1484.4	1641.7	1785.5	1776.0	1658.5	1680.6	1724.6	1805.4	2026.7	2047.7
67.5°	1260.9	1291.4	1572.5	1840.0	1858.9	1756.1	1779.2	1843.2	1932.3	2179.9	2150.5
70°	1161.3	1186.5	1404.7	1870.4	1928.1	1865.2	1875.7	1935.5	1961.7	2051.9	2020.4
72.5°	880.1	906.4	1188.6	1766.6	1987.9	1979.5	1953.3	1904.0	1748.7	1614.5	1537.9
75°	389.2	419.6	791.0	1380.5	1840.0	2044.6	1906.1	1630.2	1255.7	916.9	849.7
77.5°	172.0	189.9	306.3	766.8	1382.6	1769.7	1507.5	1086.8	630.5	340.9	316.8
80°	55.6	57.7	96.5	268.6	707.1	1171.8	923.2	522.4	194.1	79.7	74.5
82.5°	22.0	24.1	46.2	113.3	292.7	465.8	453.2	188.8	56.6	21.0	21.0
85°	6.3	7.3	23.1	59.8	103.9	131.1	160.5	62.9	30.4	6.3	6.3
87.5°	2.1	2.1	8.4	18.9	19.9	13.6	30.4	24.1	18.9	2.1	2.1
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°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	385.0	382.9	377.7	373.5	371.4	368.2	364.0	361.9	361.9	360.9	357.7
5°	377.7	374.5	365.1	358.8	353.5	342.0	333.6	323.1	312.6	309.5	312.6
7.5°	374.5	368.2	355.6	343.0	321.0	290.6	270.7	248.6	241.3	231.8	232.9
10°	375.6	368.2	350.4	322.1	279.0	233.9	202.5	173.1	158.4	151.1	152.1
12.5°	378.7	370.3	345.1	293.7	231.8	177.3	129.0	106.0	101.8	101.8	101.8
15°	385.0	372.4	336.7	260.2	181.5	117.5	91.3	89.2	92.3	95.5	96.5
17.5°	391.3	378.7	324.2	225.5	132.2	88.1	85.0	85.0	88.1	91.3	92.3
20°	398.6	385.0	306.3	188.8	94.4	82.9	81.8	80.8	82.9	86.0	87.1
22.5°	410.2	391.3	285.3	145.8	81.8	79.7	77.6	76.6	77.6	80.8	81.8
25°	420.7	399.7	263.3	108.1	76.6	74.5	73.4	72.4	72.4	74.5	75.5
27.5°	433.3	409.1	239.2	80.8	70.3	69.2	68.2	67.1	66.1	68.2	69.2
30°	449.0	417.5	213.0	68.2	64.0	62.9	61.9	60.8	59.8	60.8	61.9
32.5°	468.9	429.1	182.5	61.9	58.7	55.6	54.5	54.5	53.5	53.5	54.5
35°	495.1	441.6	150.0	57.7	53.5	50.4	47.2	46.2	46.2	46.2	47.2
37.5°	534.0	464.7	118.5	53.5	49.3	44.1	40.9	37.8	37.8	37.8	37.8
40°	587.5	489.9	92.3	50.4	46.2	38.8	34.6	30.4	28.3	27.3	28.3
42.5°	670.3	527.7	71.3	46.2	44.1	34.6	28.3	23.1	18.9	17.8	18.9
45°	761.6	568.6	56.6	43.0	39.9	29.4	22.0	15.7	11.5	10.5	11.5
47.5°	877.0	620.0	48.3	38.8	34.6	24.1	15.7	8.4	5.2	6.3	6.3
50°	988.2	670.3	44.1	35.7	30.4	19.9	9.4	4.2	2.1	3.1	3.1
52.5°	1110.9	723.8	40.9	31.5	26.2	14.7	5.2	1.0	0.0	1.0	1.0
55°	1234.7	772.1	37.8	28.3	21.0	10.5	2.1	0.0	0.0	0.0	1.0
57.5°	1369.0	813.0	34.6	24.1	15.7	6.3	1.0	0.0	0.0	0.0	0.0
60°	1481.2	844.5	31.5	21.0	10.5	3.1	0.0	0.0	0.0	0.0	0.0
62.5°	1584.0	872.8	24.1	15.7	6.3	2.1	0.0	0.0	0.0	0.0	0.0
65°	1652.2	879.1	16.8	10.5	4.2	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1621.8	824.5	10.5	7.3	2.1	1.0	0.0	0.0	0.0	0.0	0.0
70°	1425.6	692.4	7.3	4.2	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	997.6	446.9	6.3	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	526.6	161.6	4.2	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	186.7	35.7	2.1	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	40.9	7.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	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)