

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: P595294

Luminaire Tested: **IST-PA1E-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-735-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9448 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

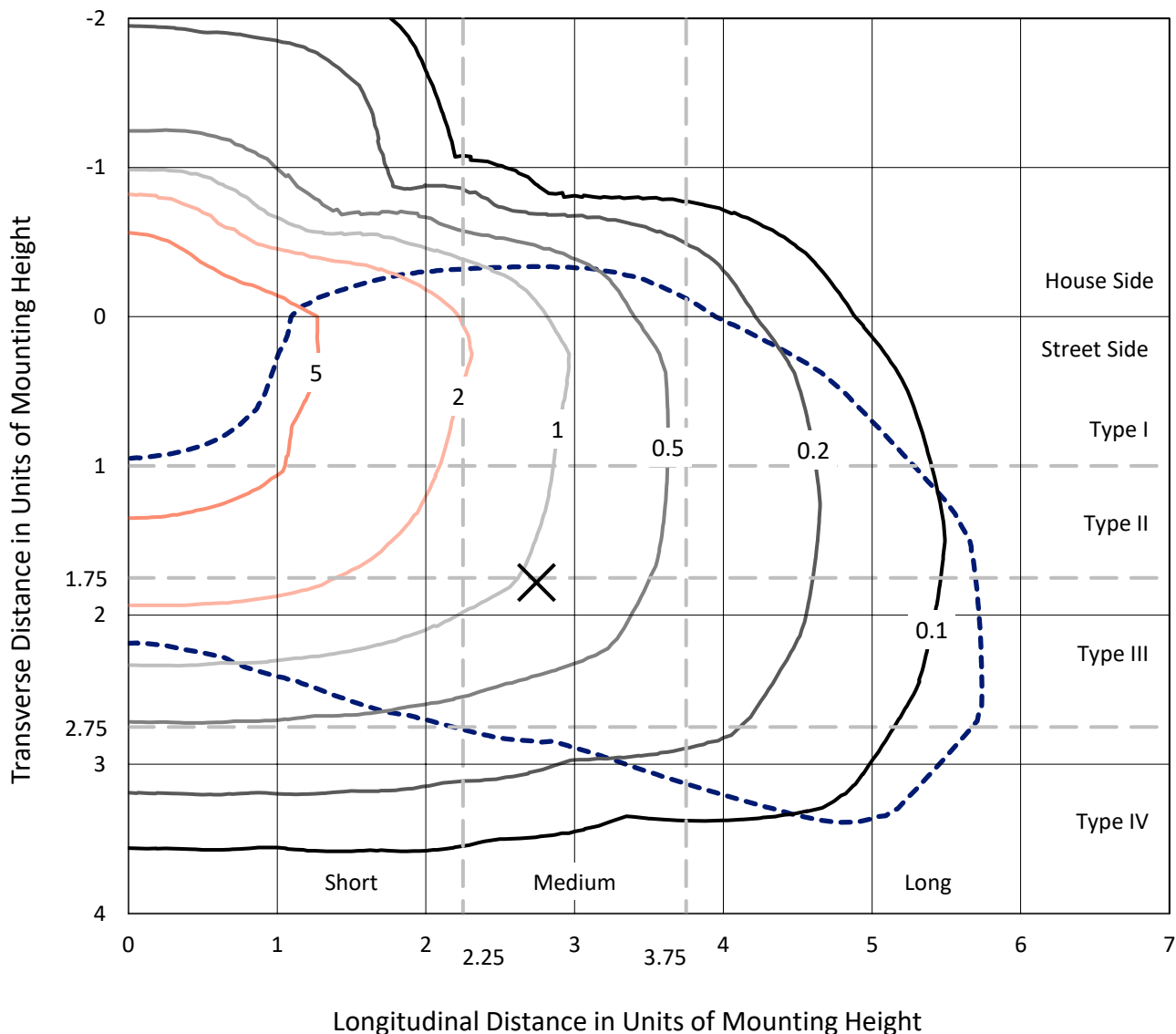
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

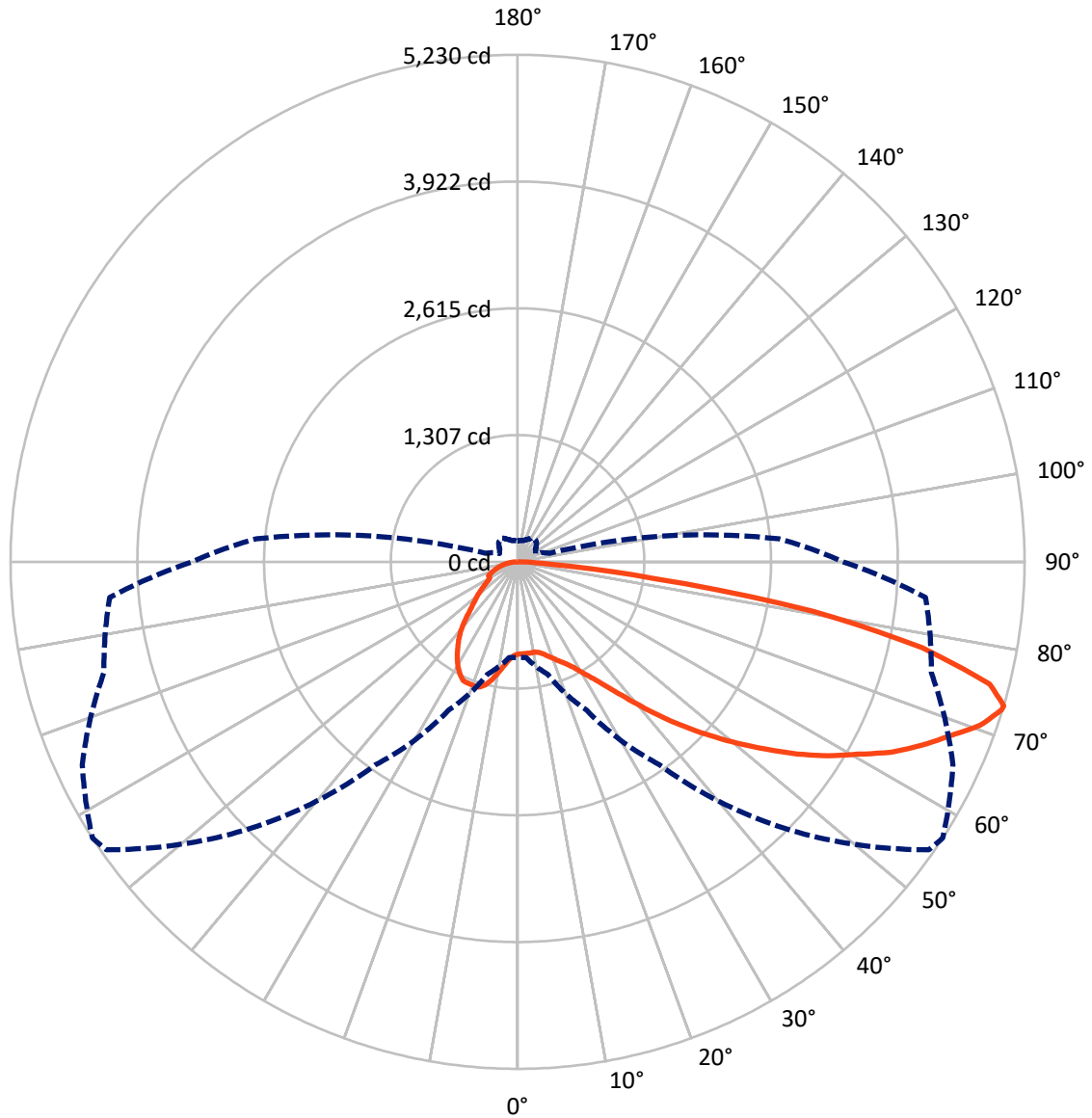
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2254.0	0.0	2254.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7194.0	0.0	7194.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	9448.0	0.0	9448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.0
10°-20°	312.6	3.3
20°-30°	577.0	6.1
30°-40°	891.0	9.4
40°-50°	1341.1	14.2
50°-60°	1962.9	20.8
60°-70°	2318.0	24.5
70°-80°	1659.6	17.6
80°-90°	290.8	3.1
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°	9448.0	100.0
0°-180°	9448.0	100.0

Coefficient of Utilization

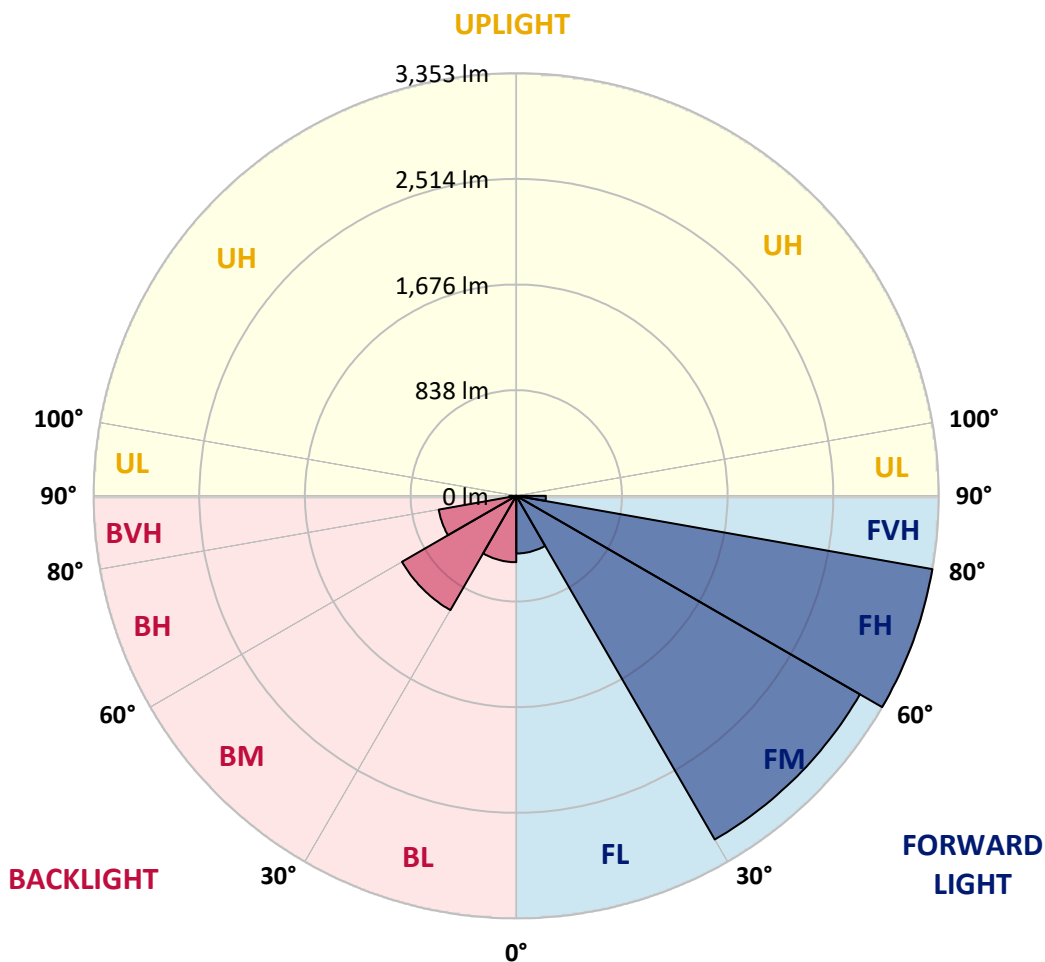


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.8	4.8			
FM (30°-60°)	3148.3	33.3			
FH (60°-80°)	3352.6	35.5			G2/5000
FVH (80°-90°)	235.3	2.5			G3/500
BL (0°-30°)	526.8	5.6	B2/1000		
BM (30°-60°)	1046.7	11.1	B2/2500		
BH (60°-80°)	624.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	55.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9
2.5°	940.3	944.9	942.6	944.9	951.9	947.3	947.3	949.6	951.9	949.6	954.2
5°	900.9	903.3	907.9	917.1	933.4	938.0	949.6	949.6	954.2	958.8	965.8
7.5°	836.1	840.7	850.0	859.2	887.0	914.8	944.9	949.6	965.8	977.4	982.0
10°	824.5	829.1	831.5	845.4	873.1	900.9	938.0	947.3	977.4	995.9	1016.7
12.5°	812.9	817.6	824.5	843.0	877.8	907.9	947.3	956.5	993.6	1030.6	1056.1
15°	822.2	824.5	831.5	850.0	884.7	926.4	977.4	984.3	1026.0	1072.3	1111.7
17.5°	845.4	847.7	845.4	861.6	894.0	942.6	1012.1	1023.7	1074.6	1121.0	1160.3
20°	898.6	900.9	891.7	891.7	914.8	963.5	1049.2	1065.4	1127.9	1178.9	1218.2
22.5°	1014.4	1009.8	986.6	956.5	956.5	995.9	1090.9	1114.0	1192.8	1234.4	1269.2
25°	1178.9	1178.9	1141.8	1086.2	1049.2	1044.5	1139.5	1165.0	1257.6	1308.6	1329.4
27.5°	1378.0	1380.4	1320.1	1246.0	1174.2	1139.5	1209.0	1234.4	1338.7	1391.9	1398.9
30°	1554.1	1556.4	1496.2	1426.7	1338.7	1262.2	1301.6	1329.4	1449.8	1491.5	1468.4
32.5°	1730.1	1732.4	1690.7	1595.7	1503.1	1408.1	1419.7	1435.9	1558.7	1598.1	1561.0
35°	1882.9	1889.9	1848.2	1776.4	1679.1	1593.4	1572.6	1574.9	1686.1	1711.5	1662.9
37.5°	2038.1	2038.1	2012.6	1945.5	1862.1	1767.1	1739.3	1746.3	1845.9	1871.4	1801.9
40°	2235.0	2244.2	2230.3	2147.0	2052.0	1973.3	1945.5	1954.7	2063.6	2049.7	1975.6
42.5°	2473.5	2494.4	2471.2	2380.9	2279.0	2191.0	2191.0	2191.0	2283.6	2285.9	2174.8
45°	2779.2	2779.2	2756.1	2677.3	2543.0	2455.0	2424.9	2431.8	2512.9	2522.2	2392.5
47.5°	3034.0	3057.2	3031.7	2973.8	2867.3	2783.9	2688.9	2677.3	2744.5	2744.5	2633.3
50°	3240.1	3281.8	3261.0	3286.5	3210.0	3168.3	2973.8	2941.4	2964.5	2987.7	2864.9
52.5°	3411.5	3443.9	3437.0	3511.1	3548.2	3571.3	3263.3	3212.3	3230.9	3228.6	3117.4
55°	3423.1	3434.7	3538.9	3705.7	3851.6	3960.4	3555.1	3499.5	3481.0	3471.7	3386.0
57.5°	3355.9	3362.9	3571.3	3768.2	4085.5	4210.6	3830.7	3775.1	3749.7	3717.2	3682.5
60°	3193.8	3228.6	3501.8	3805.2	4224.4	4405.1	4087.8	4029.9	4011.4	3941.9	4020.6
62.5°	2987.7	3003.9	3277.2	3728.8	4243.0	4488.5	4358.8	4324.0	4266.1	4166.5	4321.7
65°	2695.9	2693.5	2934.4	3504.2	4148.0	4530.2	4588.1	4569.5	4497.7	4326.4	4590.4
67.5°	2214.1	2267.4	2503.6	3105.8	3918.7	4571.9	4822.0	4798.8	4685.3	4469.9	4717.8
70°	1688.4	1720.8	1989.5	2508.3	3462.5	4458.4	5051.3	5058.2	4852.1	4500.1	4662.2
72.5°	1077.0	1132.5	1345.6	1827.4	2772.3	4036.8	5187.9	5220.3	4944.7	4458.4	4317.1
73°	986.6	991.3	1199.7	1690.7	2556.9	3886.3	5178.7	5229.6	4954.0	4416.7	4222.1
75°	588.3	613.7	738.8	1123.3	1825.0	3122.0	4928.5	5030.4	4905.4	4231.4	3701.0
77.5°	275.6	294.1	363.6	592.9	993.6	1878.3	4143.4	4263.8	4347.2	3703.3	2820.9
80°	145.9	148.2	178.3	298.8	532.7	773.6	2888.1	3087.3	3205.4	2788.5	1896.8
82.5°	122.7	122.7	139.0	192.2	340.5	301.1	1190.4	1417.4	1737.0	1373.4	745.8
85°	99.6	101.9	139.0	143.6	243.2	155.2	284.9	356.7	674.0	606.8	83.4
87.5°	32.4	37.1	78.7	101.9	129.7	60.2	71.8	78.7	78.7	115.8	27.8
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°	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9
2.5°	956.5	956.5	958.8	961.2	965.8	965.8	970.4	972.7	977.4	979.7	972.7
5°	965.8	970.4	975.1	988.9	1005.2	1019.1	1033.0	1044.5	1056.1	1063.1	1060.7
7.5°	991.3	998.2	1016.7	1042.2	1074.6	1095.5	1116.3	1137.2	1146.4	1151.1	1151.1
10°	1026.0	1039.9	1074.6	1116.3	1153.4	1185.8	1202.0	1215.9	1220.6	1225.2	1220.6
12.5°	1074.6	1093.2	1146.4	1199.7	1241.4	1257.6	1255.3	1236.8	1211.3	1206.7	1202.0
15°	1137.2	1160.3	1220.6	1283.1	1315.5	1294.7	1241.4	1222.9	1218.2	1232.1	1227.5
17.5°	1190.4	1218.2	1292.3	1357.2	1350.2	1278.5	1262.2	1271.5	1266.9	1269.2	1269.2
20°	1241.4	1280.8	1359.5	1403.5	1343.3	1297.0	1283.1	1271.5	1257.6	1262.2	1257.6
22.5°	1306.2	1334.0	1424.4	1426.7	1334.0	1297.0	1266.9	1243.7	1239.1	1241.4	1243.7
25°	1357.2	1401.2	1479.9	1410.5	1334.0	1259.9	1218.2	1213.6	1215.9	1229.8	1225.2
27.5°	1426.7	1470.7	1524.0	1401.2	1278.5	1199.7	1183.5	1181.2	1165.0	1169.6	1169.6
30°	1491.5	1544.8	1547.1	1401.2	1209.0	1148.8	1125.6	1083.9	1049.2	1056.1	1053.8
32.5°	1579.5	1625.9	1551.7	1345.6	1130.2	1081.6	1019.1	954.2	938.0	947.3	949.6
35°	1681.4	1718.5	1556.4	1253.0	1051.5	986.6	873.1	836.1	833.8	840.7	847.7
37.5°	1815.8	1836.6	1591.1	1146.4	975.1	838.4	750.4	741.1	720.3	706.4	708.7
40°	1980.2	1954.7	1658.3	1051.5	884.7	704.1	667.0	641.5	602.2	562.8	569.7
42.5°	2163.2	2091.4	1679.1	975.1	762.0	620.7	586.0	546.6	497.9	456.3	453.9
45°	2360.0	2244.2	1660.6	914.8	639.2	558.2	521.1	474.8	416.9	382.1	382.1
47.5°	2594.0	2390.1	1602.7	866.2	553.5	502.6	456.3	409.9	370.6	338.1	338.1
50°	2851.0	2559.2	1561.0	780.5	493.3	449.3	403.0	365.9	335.8	310.3	310.3
52.5°	3122.0	2719.0	1526.3	655.4	440.0	400.7	368.2	338.1	312.7	280.2	275.6
55°	3397.6	2871.9	1542.5	535.0	391.4	365.9	345.1	315.0	305.7	298.8	294.1
57.5°	3684.8	3038.6	1581.9	437.7	349.7	347.4	338.1	359.0	379.8	365.9	359.0
60°	3909.5	3168.3	1586.5	368.2	324.2	365.9	412.3	419.2	363.6	331.2	328.9
62.5°	4087.8	3291.1	1477.6	319.6	331.2	430.8	440.0	370.6	315.0	301.1	301.1
65°	4180.4	3335.1	1188.1	291.8	345.1	412.3	398.4	333.5	294.1	291.8	291.8
67.5°	4134.1	3300.3	831.5	261.7	305.7	356.7	356.7	305.7	271.0	282.6	277.9
70°	3911.8	3129.0	548.9	236.2	268.7	321.9	331.2	284.9	252.4	259.4	252.4
72.5°	3448.6	2823.2	361.3	208.4	231.6	284.9	308.0	261.7	231.6	229.3	222.3
73°	3358.2	2707.4	340.5	203.8	224.7	275.6	301.1	257.1	227.0	220.0	215.4
75°	2848.7	2258.1	257.1	183.0	199.2	247.8	280.2	240.9	208.4	199.2	194.5
77.5°	2075.2	1565.6	192.2	155.2	166.8	215.4	247.8	220.0	185.3	173.7	171.4
80°	1294.7	852.3	143.6	125.1	132.0	180.7	217.7	196.9	159.8	145.9	143.6
82.5°	507.2	277.9	99.6	92.6	97.3	136.6	183.0	171.4	134.3	122.7	115.8
85°	83.4	95.0	64.8	62.5	62.5	97.3	139.0	132.0	90.3	78.7	69.5
87.5°	23.2	44.0	25.5	23.2	23.2	41.7	76.4	60.2	37.1	30.1	27.8
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)