

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: INVUE

Report Number: P401688

Luminaire Tested: **ENT-SA1E-740-U-T2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-740-U-T2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7001 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

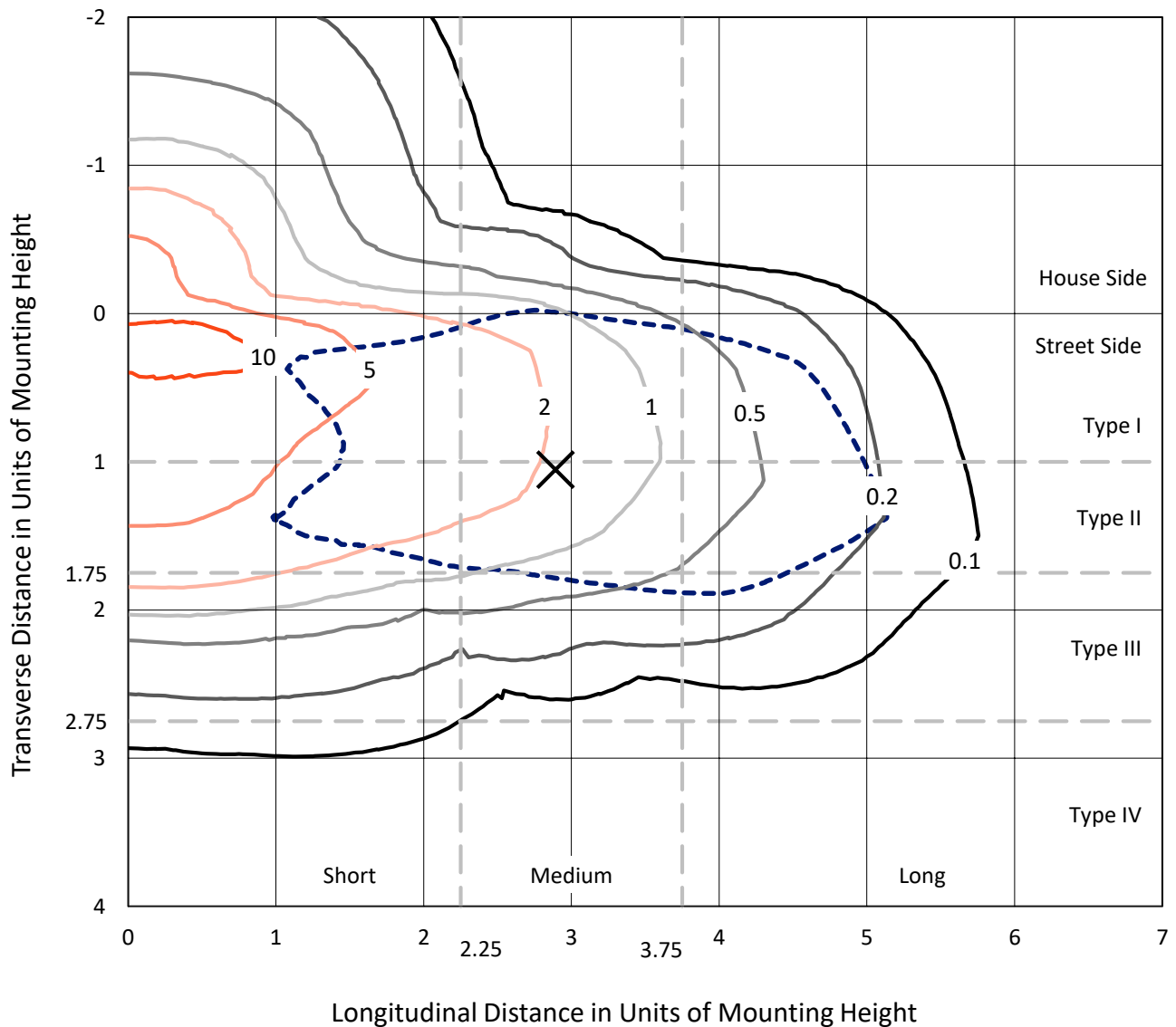
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

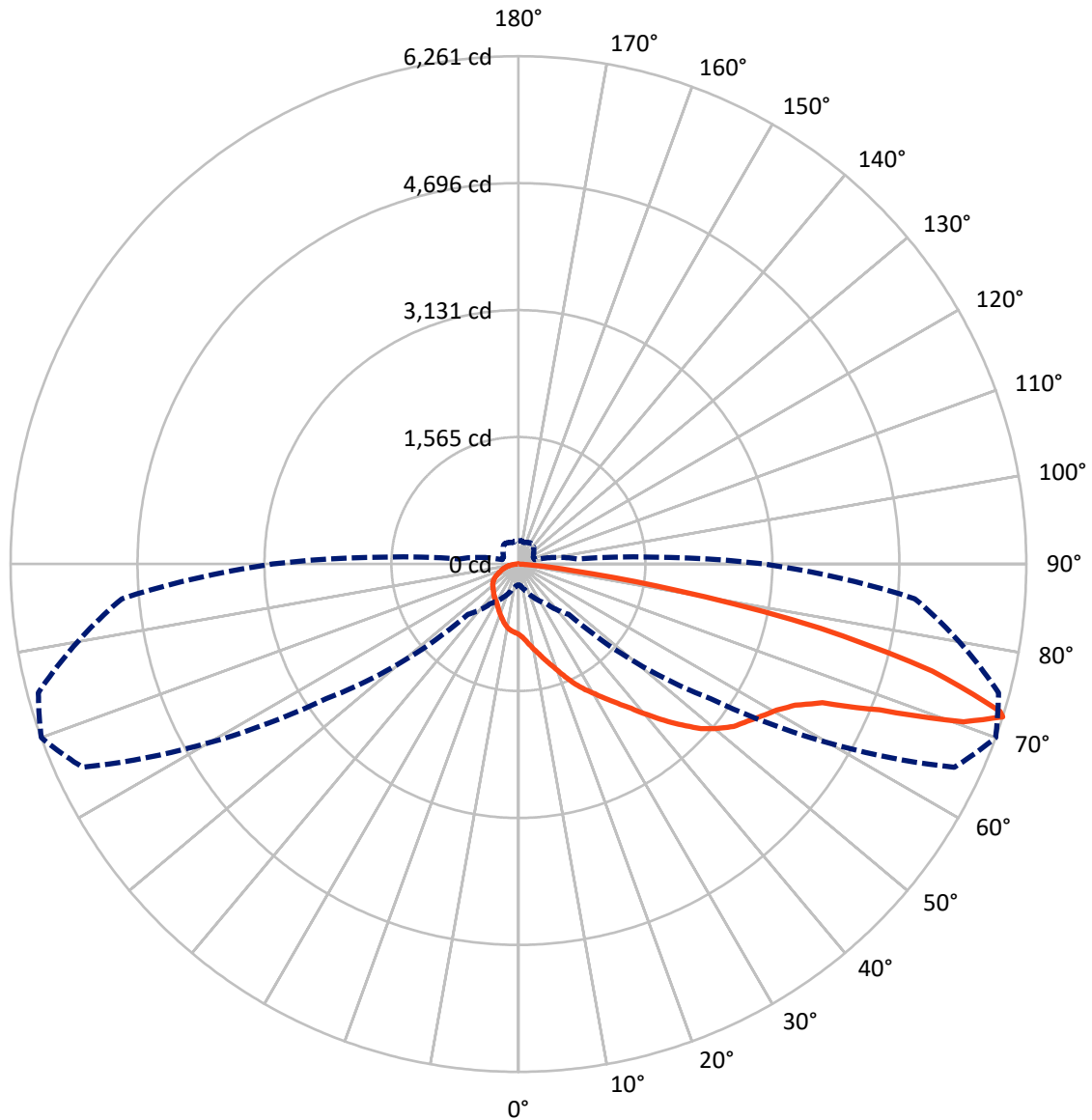
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.8	0.0	1300.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5700.1	0.0	5700.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	7001.0	0.0	7001.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.2
10°-20°	279.6	4.0
20°-30°	495.1	7.1
30°-40°	736.1	10.5
40°-50°	1067.9	15.3
50°-60°	1458.9	20.8
60°-70°	1597.3	22.8
70°-80°	1136.2	16.2
80°-90°	142.6	2.0
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°	7001.0	100.0
0°-180°	7001.0	100.0



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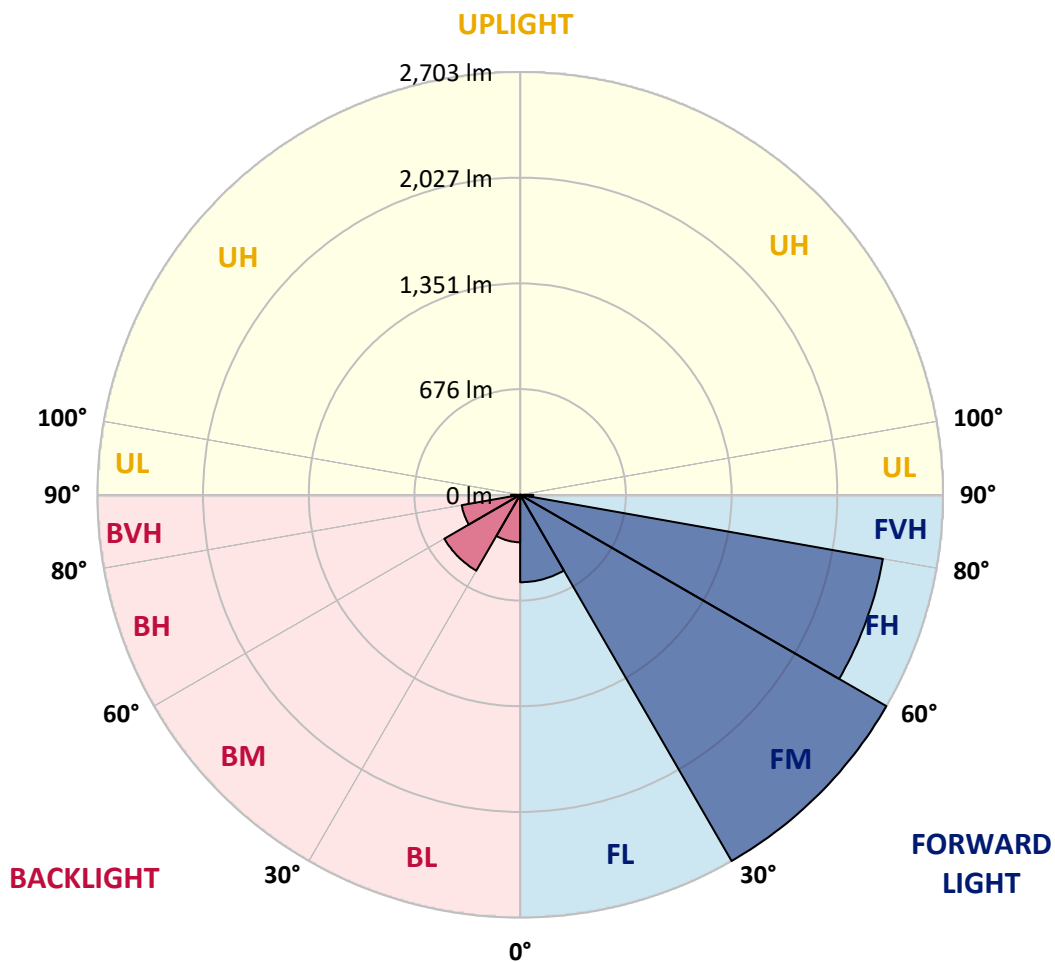
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.8	8.0			
FM	(30°-60°)	2702.8	38.6			
FH	(60°-80°)	2354.3	33.6			G2/5000
FVH	(80°-90°)	84.3	1.2			G1/100
BL	(0°-30°)	303.1	4.3	B1/500		
BM	(30°-60°)	560.1	8.0	B1/1000		
BH	(60°-80°)	379.3	5.4	B1/500		G1/500
BVH	(80°-90°)	58.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0
2.5°	964.0	959.0	960.0	951.0	946.0	934.0	921.0	907.0	900.0	895.0	878.0
5°	1058.0	1058.0	1062.0	1055.0	1036.0	1016.0	993.0	962.0	949.0	931.0	897.0
7.5°	1136.0	1138.0	1138.0	1136.0	1119.0	1097.0	1067.0	1029.0	1008.0	982.0	929.0
10°	1176.0	1181.0	1185.0	1188.0	1186.0	1173.0	1139.0	1100.0	1071.0	1037.0	966.0
12.5°	1196.0	1198.0	1205.0	1220.0	1232.0	1242.0	1217.0	1171.0	1142.0	1101.0	1006.0
15°	1218.0	1218.0	1225.0	1244.0	1267.0	1294.0	1291.0	1255.0	1224.0	1173.0	1057.0
17.5°	1232.0	1236.0	1249.0	1269.0	1301.0	1346.0	1369.0	1349.0	1309.0	1255.0	1112.0
20°	1224.0	1227.0	1253.0	1292.0	1333.0	1391.0	1449.0	1449.0	1411.0	1349.0	1173.0
22.5°	1239.0	1244.0	1262.0	1299.0	1355.0	1430.0	1525.0	1558.0	1525.0	1457.0	1244.0
25°	1297.0	1295.0	1310.0	1325.0	1373.0	1466.0	1590.0	1675.0	1645.0	1570.0	1313.0
27.5°	1381.0	1381.0	1389.0	1388.0	1405.0	1496.0	1647.0	1778.0	1753.0	1663.0	1370.0
30°	1478.0	1480.0	1478.0	1477.0	1474.0	1537.0	1698.0	1870.1	1857.1	1768.0	1422.0
32.5°	1596.0	1601.0	1593.0	1573.0	1561.0	1596.0	1741.0	1973.1	1977.1	1872.1	1473.0
35°	1744.0	1752.0	1722.0	1693.0	1663.0	1679.0	1791.0	2070.1	2110.1	1990.1	1535.0
37.5°	1892.1	1905.1	1900.1	1822.1	1780.0	1779.0	1865.1	2191.1	2258.1	2144.1	1623.0
40°	2017.1	2028.1	2034.1	1963.1	1905.1	1903.1	1974.1	2317.1	2440.1	2321.1	1727.0
42.5°	2100.1	2110.1	2128.1	2086.1	2032.1	2057.1	2094.1	2442.1	2636.1	2537.1	1855.1
45°	2190.1	2198.1	2209.1	2185.1	2157.1	2229.1	2246.1	2581.1	2832.1	2769.1	2005.1
47.5°	2286.1	2294.1	2300.1	2282.1	2272.1	2373.1	2395.1	2723.1	3030.1	3009.1	2151.1
50°	2392.1	2395.1	2401.1	2392.1	2395.1	2504.1	2518.1	2848.1	3187.1	3259.1	2303.1
52.5°	2574.1	2578.1	2580.1	2537.1	2522.1	2587.1	2617.1	2981.1	3325.1	3467.1	2437.1
55°	2718.1	2732.1	2795.1	2767.1	2731.1	2646.1	2699.1	3088.1	3423.1	3661.1	2577.1
57.5°	2600.1	2632.1	2789.1	2921.1	3022.1	2819.1	2796.1	3198.1	3536.1	3828.1	2740.1
60°	2257.1	2304.1	2532.1	2807.1	3134.1	3216.1	2995.1	3335.1	3659.1	4002.1	2915.1
62.5°	1565.0	1613.0	1928.1	2367.1	2945.1	3443.1	3540.1	3578.1	3830.1	4180.1	3143.1
65°	750.0	799.0	1059.0	1522.0	2326.1	3297.1	4175.1	4082.1	4118.1	4406.1	3479.1
67.5°	477.0	503.0	605.0	829.0	1353.0	2568.1	4403.1	5086.1	4800.1	4927.1	4148.1
70°	349.0	355.0	443.0	574.0	803.0	1500.0	3888.1	6047.2	5823.2	5809.2	4955.1
72°	258.0	268.0	336.0	458.0	594.0	877.0	2893.1	5930.2	6261.2	6128.2	4907.1
72.5°	243.0	251.0	310.0	433.0	561.0	770.0	2592.1	5794.2	6207.2	6137.2	4815.1
75°	177.0	183.0	212.0	308.0	434.0	446.0	1384.0	4447.1	5271.1	5859.2	4365.1
77.5°	122.0	126.0	141.0	189.0	297.0	302.0	587.0	3036.1	3804.1	4685.1	3357.1
80°	74.0	76.0	85.0	103.0	189.0	179.0	242.0	1587.0	1985.1	2547.1	1557.0
82.5°	31.0	32.0	37.0	41.0	80.0	85.0	98.0	518.0	657.0	796.0	449.0
85°	0.0	0.0	1.0	1.0	2.0	9.0	14.0	64.0	97.0	116.0	81.0
87.5°	0.0	0.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0	4.0	6.0
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°	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0
2.5°	870.0	866.0	854.0	844.0	836.0	823.0	822.0	812.0	812.0	809.0	807.0
5°	884.0	871.0	847.0	825.0	809.0	790.0	781.0	770.0	763.0	759.0	760.0
7.5°	902.0	880.0	839.0	802.0	772.0	748.0	734.0	725.0	720.0	718.0	718.0
10°	927.0	893.0	826.0	770.0	732.0	714.0	707.0	706.0	707.0	708.0	709.0
12.5°	955.0	902.0	802.0	732.0	702.0	695.0	699.0	708.0	716.0	719.0	719.0
15°	984.0	908.0	769.0	697.0	679.0	686.0	700.0	717.0	730.0	738.0	740.0
17.5°	1014.0	909.0	734.0	665.0	659.0	677.0	702.0	729.0	750.0	763.0	765.0
20°	1046.0	907.0	693.0	636.0	639.0	669.0	704.0	741.0	769.0	786.0	788.0
22.5°	1081.0	899.0	653.0	608.0	622.0	661.0	702.0	745.0	775.0	795.0	799.0
25°	1115.0	883.0	613.0	583.0	610.0	653.0	692.0	729.0	758.0	777.0	782.0
27.5°	1133.0	849.0	575.0	564.0	601.0	641.0	669.0	694.0	710.0	722.0	727.0
30°	1136.0	801.0	544.0	551.0	591.0	624.0	640.0	644.0	641.0	645.0	640.0
32.5°	1130.0	749.0	519.0	541.0	575.0	600.0	604.0	592.0	574.0	549.0	550.0
35°	1126.0	692.0	499.0	527.0	554.0	570.0	563.0	544.0	510.0	480.0	478.0
37.5°	1133.0	640.0	482.0	509.0	527.0	534.0	524.0	499.0	469.0	443.0	440.0
40°	1153.0	602.0	466.0	489.0	498.0	503.0	491.0	469.0	457.0	438.0	435.0
42.5°	1192.0	576.0	451.0	467.0	471.0	476.0	464.0	449.0	460.0	456.0	456.0
45°	1246.0	564.0	438.0	446.0	450.0	458.0	451.0	438.0	450.0	427.0	423.0
47.5°	1316.0	568.0	429.0	425.0	437.0	451.0	443.0	427.0	423.0	382.0	375.0
50°	1390.0	589.0	420.0	408.0	423.0	442.0	432.0	407.0	383.0	362.0	358.0
52.5°	1477.0	624.0	412.0	389.0	407.0	432.0	425.0	398.0	373.0	358.0	355.0
55°	1573.0	658.0	402.0	367.0	386.0	429.0	427.0	392.0	359.0	352.0	350.0
57.5°	1681.0	686.0	390.0	342.0	365.0	420.0	418.0	378.0	355.0	349.0	348.0
60°	1816.0	719.0	369.0	313.0	344.0	403.0	401.0	371.0	346.0	341.0	339.0
62.5°	2000.1	780.0	333.0	286.0	322.0	373.0	385.0	357.0	333.0	332.0	332.0
65°	2303.1	898.0	296.0	263.0	297.0	344.0	364.0	341.0	321.0	326.0	326.0
67.5°	2876.1	1057.0	258.0	241.0	273.0	316.0	346.0	325.0	308.0	318.0	318.0
70°	3318.1	998.0	228.0	220.0	249.0	291.0	323.0	308.0	292.0	309.0	307.0
72°	3027.1	731.0	208.0	203.0	229.0	270.0	303.0	292.0	275.0	289.0	285.0
72.5°	2906.1	664.0	202.0	198.0	223.0	266.0	299.0	288.0	270.0	284.0	278.0
75°	2535.1	560.0	176.0	174.0	198.0	239.0	273.0	267.0	249.0	257.0	251.0
77.5°	2098.1	472.0	148.0	152.0	169.0	213.0	246.0	240.0	223.0	222.0	221.0
80°	984.0	263.0	122.0	125.0	142.0	182.0	212.0	208.0	192.0	190.0	187.0
82.5°	285.0	126.0	94.0	96.0	114.0	149.0	182.0	180.0	168.0	165.0	158.0
85°	53.0	41.0	51.0	60.0	83.0	124.0	166.0	162.0	144.0	131.0	121.0
87.5°	3.0	8.0	17.0	29.0	53.0	93.0	134.0	131.0	115.0	99.0	100.0
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)