

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: P675314

Luminaire Tested: **CCW-SA-1E-830-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675314
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5480.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

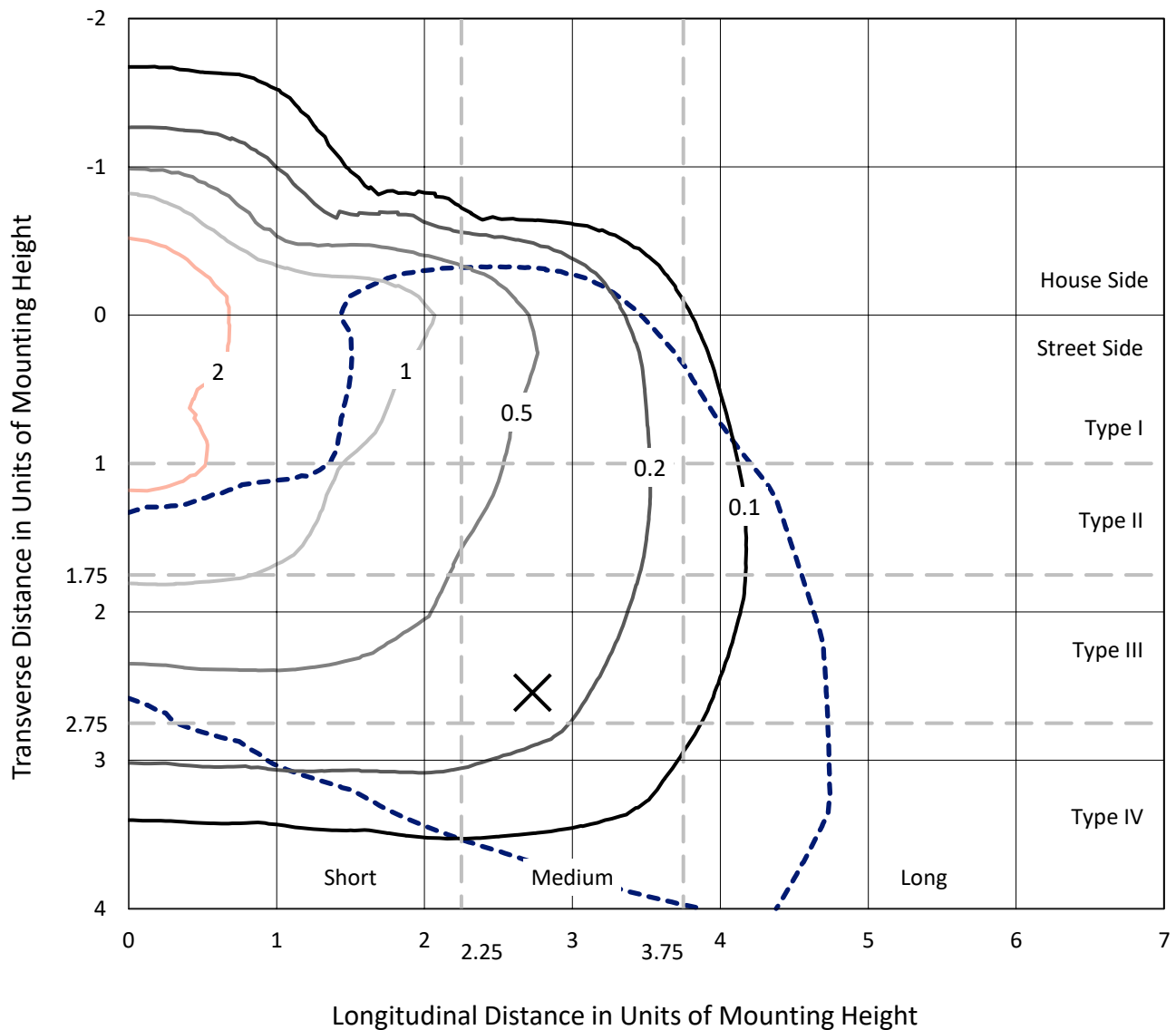
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

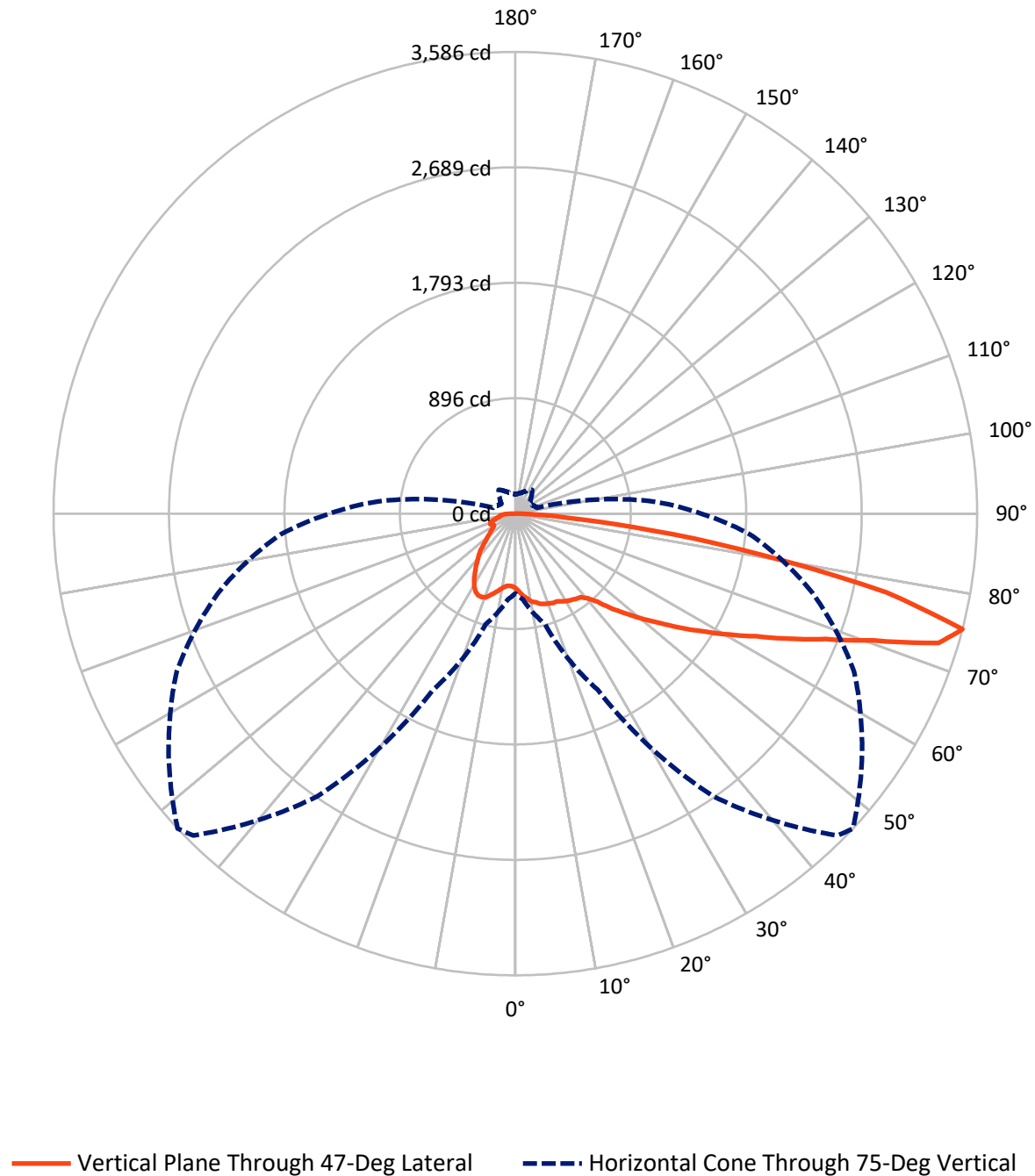
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1310.7	0.0	1310.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4170.0	0.0	4170.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	5480.7	0.0	5480.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	1.1
10°-20°	195.4	3.6
20°-30°	334.6	6.1
30°-40°	468.2	8.5
40°-50°	652.8	11.9
50°-60°	975.8	17.8
60°-70°	1406.8	25.7
70°-80°	1197.5	21.8
80°-90°	190.8	3.5
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°	5480.7	100.0
0°-180°	5480.7	100.0

Coefficient of Utilization



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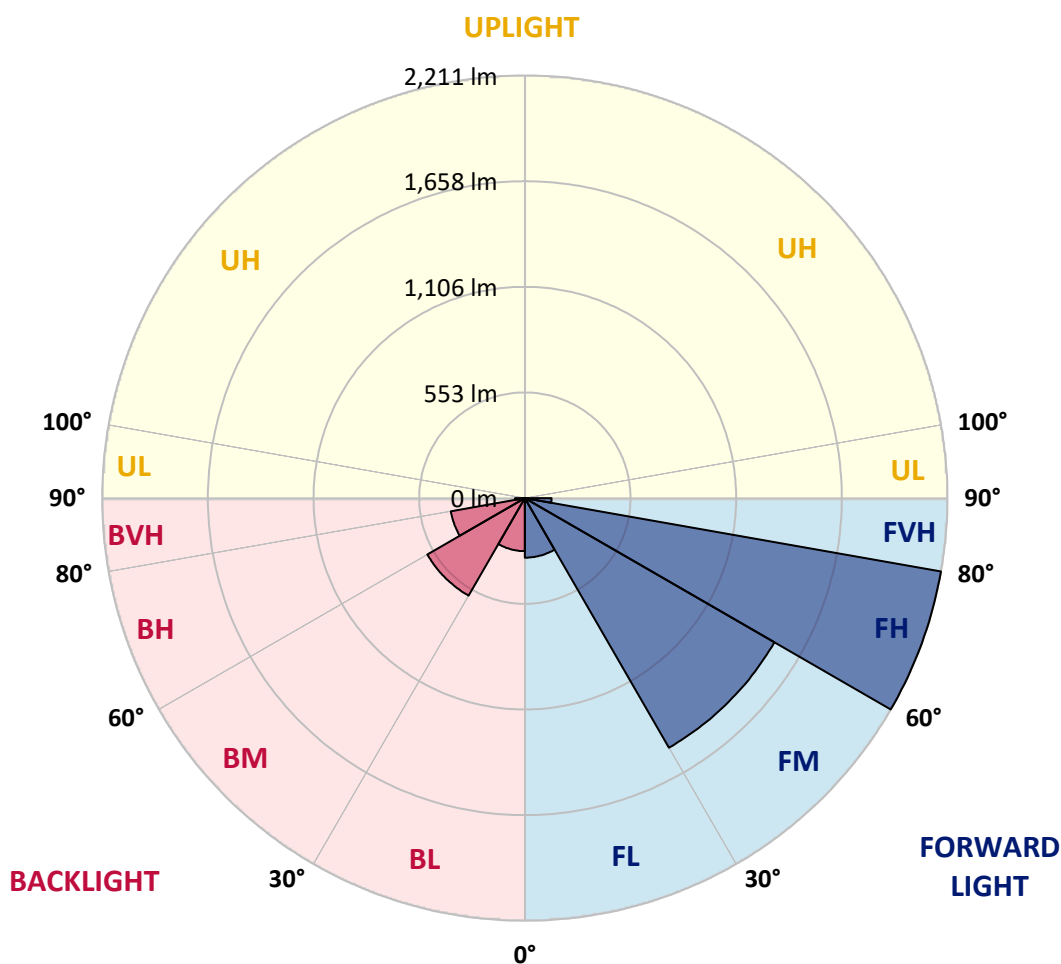
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.4	5.7			
FM	(30°-60°)	1507.7	27.5			
FH	(60°-80°)	2211.1	40.3			G2/5000
FVH	(80°-90°)	139.8	2.6			G2/225
BL	(0°-30°)	277.4	5.1	B1/500		
BM	(30°-60°)	589.1	10.7	B1/1000		
BH	(60°-80°)	393.2	7.2	B1/500		G1/500
BVH	(80°-90°)	51.0	0.9			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	623.9	625.9	625.9	621.9	617.9	609.9	609.9	601.9	597.9	587.9	583.9
5°	681.9	675.9	669.9	667.9	657.9	643.9	641.9	633.9	611.9	601.9	587.9
7.5°	723.9	721.9	719.9	711.9	693.9	671.9	665.9	653.9	631.9	611.9	595.9
10°	757.9	765.9	757.9	739.9	721.9	697.9	695.9	673.9	653.9	629.9	609.9
12.5°	795.9	797.9	783.9	761.9	733.9	713.9	705.9	697.9	675.9	655.9	625.9
15°	821.9	817.9	807.9	777.9	745.9	725.9	727.9	717.9	693.9	679.9	647.9
17.5°	821.9	821.9	805.9	783.9	755.9	737.9	737.9	731.9	715.9	695.9	673.9
20°	805.9	805.9	795.9	783.9	751.9	747.9	743.9	739.9	739.9	721.9	689.9
22.5°	785.9	781.9	785.9	765.9	743.9	747.9	753.9	751.9	745.9	729.9	707.9
25°	765.9	767.9	771.9	757.9	737.9	755.9	753.9	763.9	759.9	747.9	729.9
27.5°	763.9	767.9	769.9	755.9	747.9	763.9	771.9	781.9	783.9	771.9	749.9
30°	793.9	791.9	789.9	771.9	765.9	779.9	787.9	801.9	813.9	787.9	769.9
32.5°	871.9	859.9	847.9	799.9	781.9	791.9	799.9	819.9	821.9	807.9	781.9
35°	995.9	987.9	947.9	863.9	813.9	803.9	811.9	825.9	829.9	819.9	799.9
37.5°	1137.9	1133.9	1077.9	975.9	879.9	831.9	823.9	843.9	859.9	837.9	809.9
40°	1277.8	1261.8	1221.8	1121.9	963.9	873.9	863.9	873.9	879.9	863.9	845.9
42.5°	1403.8	1385.8	1375.8	1275.8	1073.9	943.9	935.9	911.9	929.9	909.9	885.9
45°	1509.8	1505.8	1501.8	1415.8	1199.9	1057.9	1051.9	989.9	1009.9	993.9	959.9
47.5°	1585.8	1603.8	1597.8	1549.8	1343.8	1179.9	1161.9	1081.9	1111.9	1095.9	1061.9
50°	1675.8	1685.8	1679.8	1647.8	1477.8	1319.8	1285.8	1203.9	1237.8	1235.8	1217.8
52.5°	1755.8	1785.8	1751.8	1749.8	1669.8	1471.8	1413.8	1335.8	1391.8	1413.8	1411.8
55°	1849.8	1873.8	1863.8	1859.8	1841.8	1619.8	1567.8	1473.8	1567.8	1599.8	1627.8
57.5°	1929.8	1927.8	1965.8	2011.8	2033.7	1789.8	1727.8	1617.8	1759.8	1795.8	1873.8
60°	1965.8	1999.8	2063.7	2179.7	2241.7	1971.8	1907.8	1819.8	1953.8	1981.8	2125.7
62.5°	1989.8	2019.8	2143.7	2339.7	2375.7	2157.7	2097.7	2009.8	2165.7	2185.7	2399.7
65°	1923.8	1951.8	2197.7	2399.7	2527.7	2357.7	2343.7	2251.7	2377.7	2389.7	2687.7
67.5°	1847.8	1877.8	2151.7	2475.7	2729.7	2623.7	2601.7	2491.7	2587.7	2573.7	2907.6
70°	1713.8	1753.8	2033.7	2541.7	2953.6	2995.6	2951.6	2795.7	2805.7	2673.7	2917.6
72.5°	1305.8	1331.8	1591.8	2279.7	3057.6	3511.6	3435.6	3123.6	3009.6	2693.7	2575.7
75°	619.9	667.9	887.9	1507.8	2679.7	3535.6	3585.6	3285.6	2901.6	2389.7	1825.8
77.5°	180.0	180.0	270.0	639.9	1679.8	2849.6	2943.6	2789.7	2393.7	1769.8	959.9
80°	98.0	104.0	142.0	226.0	737.9	1797.8	1933.8	1849.8	1409.8	699.9	248.0
82.5°	56.0	58.0	94.0	136.0	336.0	977.9	1057.9	959.9	535.9	212.0	116.0
85°	32.0	34.0	54.0	90.0	200.0	360.0	392.0	340.0	216.0	142.0	58.0
87.5°	16.0	16.0	26.0	42.0	102.0	102.0	100.0	122.0	130.0	86.0	26.0
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°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	581.9	579.9	579.9	571.9	569.9	563.9	563.9	559.9	557.9	563.9	563.9
5°	583.9	573.9	571.9	563.9	565.9	561.9	569.9	565.9	563.9	563.9	561.9
7.5°	587.9	577.9	569.9	563.9	561.9	567.9	577.9	577.9	589.9	583.9	583.9
10°	597.9	591.9	581.9	577.9	577.9	583.9	595.9	603.9	613.9	613.9	607.9
12.5°	621.9	611.9	599.9	593.9	601.9	607.9	619.9	627.9	639.9	643.9	639.9
15°	639.9	629.9	625.9	621.9	627.9	635.9	645.9	653.9	667.9	671.9	669.9
17.5°	663.9	651.9	649.9	651.9	655.9	661.9	667.9	673.9	683.9	683.9	683.9
20°	675.9	671.9	669.9	675.9	683.9	691.9	687.9	683.9	681.9	685.9	683.9
22.5°	697.9	693.9	695.9	701.9	701.9	697.9	691.9	677.9	673.9	677.9	673.9
25°	717.9	713.9	713.9	709.9	707.9	693.9	681.9	669.9	655.9	661.9	659.9
27.5°	737.9	735.9	735.9	719.9	699.9	675.9	659.9	645.9	637.9	647.9	641.9
30°	761.9	763.9	753.9	715.9	667.9	641.9	623.9	621.9	619.9	625.9	623.9
32.5°	783.9	785.9	769.9	709.9	643.9	593.9	575.9	577.9	587.9	597.9	607.9
35°	795.9	805.9	785.9	689.9	595.9	539.9	519.9	537.9	555.9	569.9	579.9
37.5°	817.9	843.9	809.9	667.9	553.9	491.9	477.9	483.9	505.9	527.9	537.9
40°	849.9	879.9	815.9	625.9	497.9	443.9	435.9	437.9	445.9	459.9	469.9
42.5°	905.9	937.9	821.9	571.9	441.9	413.9	392.0	386.0	380.0	380.0	378.0
45°	987.9	1017.9	813.9	503.9	386.0	366.0	350.0	336.0	320.0	294.0	298.0
47.5°	1107.9	1131.9	819.9	443.9	334.0	318.0	306.0	290.0	266.0	238.0	236.0
50°	1289.8	1253.8	811.9	382.0	296.0	282.0	272.0	250.0	222.0	202.0	200.0
52.5°	1501.8	1429.8	803.9	330.0	264.0	252.0	244.0	220.0	194.0	184.0	182.0
55°	1757.8	1653.8	815.9	284.0	240.0	230.0	222.0	200.0	180.0	172.0	170.0
57.5°	2059.7	1895.8	881.9	248.0	214.0	210.0	208.0	190.0	172.0	166.0	164.0
60°	2343.7	2127.7	925.9	222.0	190.0	194.0	198.0	190.0	170.0	166.0	166.0
62.5°	2581.7	2319.7	855.9	200.0	178.0	190.0	208.0	202.0	194.0	198.0	194.0
65°	2791.7	2385.7	639.9	188.0	172.0	200.0	230.0	228.0	210.0	214.0	212.0
67.5°	2827.7	2305.7	417.9	178.0	168.0	220.0	258.0	234.0	198.0	198.0	192.0
70°	2677.7	2091.7	280.0	168.0	166.0	220.0	264.0	220.0	186.0	186.0	178.0
72.5°	2197.7	1671.8	216.0	158.0	152.0	196.0	250.0	208.0	174.0	170.0	156.0
75°	1443.8	1077.9	176.0	150.0	132.0	172.0	226.0	192.0	166.0	154.0	148.0
77.5°	707.9	483.9	148.0	132.0	114.0	150.0	206.0	182.0	156.0	144.0	140.0
80°	194.0	174.0	124.0	116.0	96.0	130.0	194.0	174.0	146.0	134.0	128.0
82.5°	110.0	108.0	100.0	94.0	80.0	130.0	196.0	174.0	138.0	136.0	116.0
85°	60.0	64.0	72.0	70.0	62.0	116.0	186.0	152.0	112.0	94.0	94.0
87.5°	24.0	30.0	36.0	40.0	42.0	86.0	140.0	116.0	86.0	72.0	72.0
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)