

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 767599_350MP

Luminaire Tested: **GMX35PXXASHS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 767599_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXXASHS
Description: 400MH TYPE VERTICAL AREA SQUARE
WITH HOUSE SIDE SHIELD
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 20532.3 lumens
Efficiency: 55.5%
Efficacy: 51.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B4 - U3 - G4

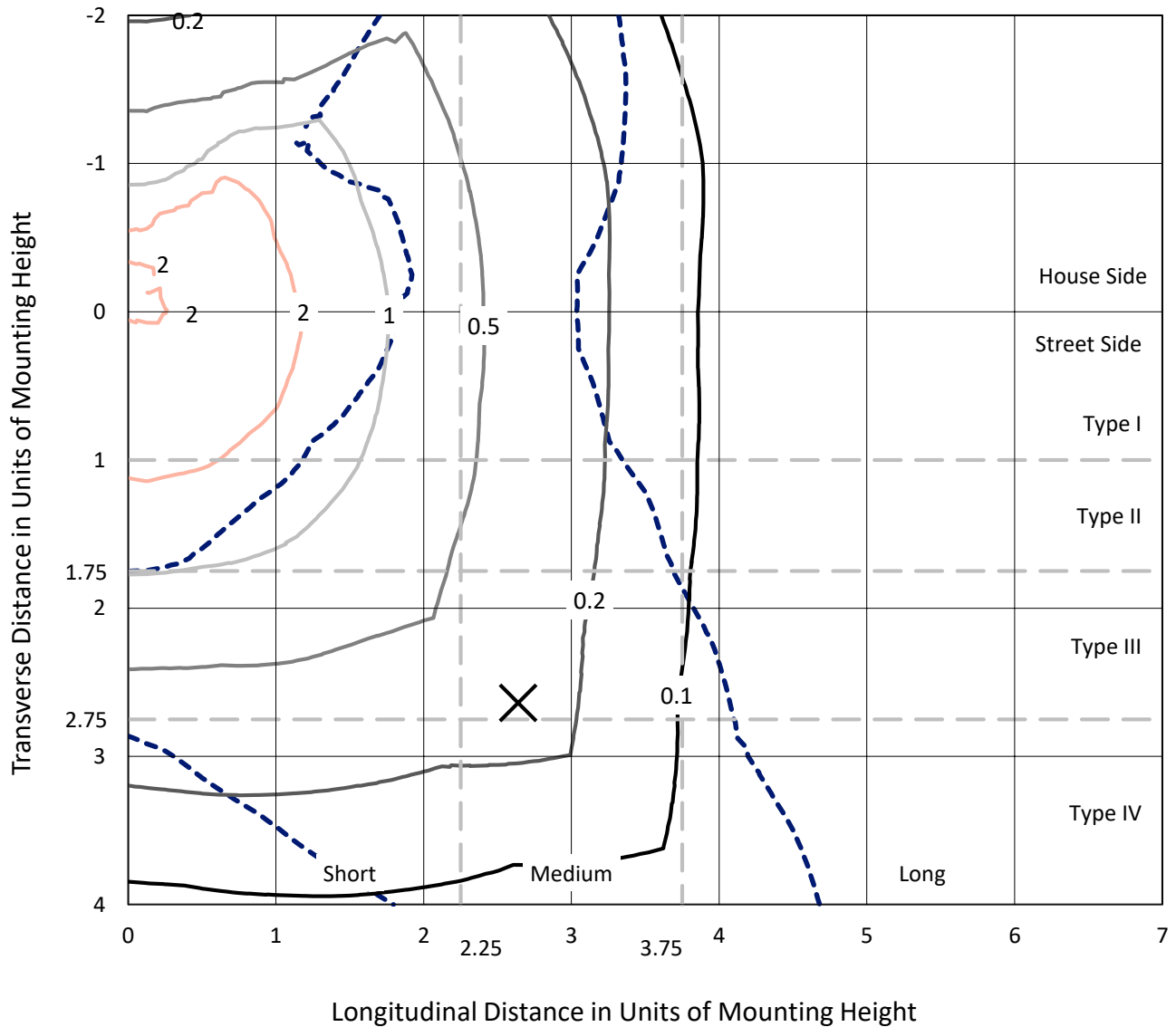
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

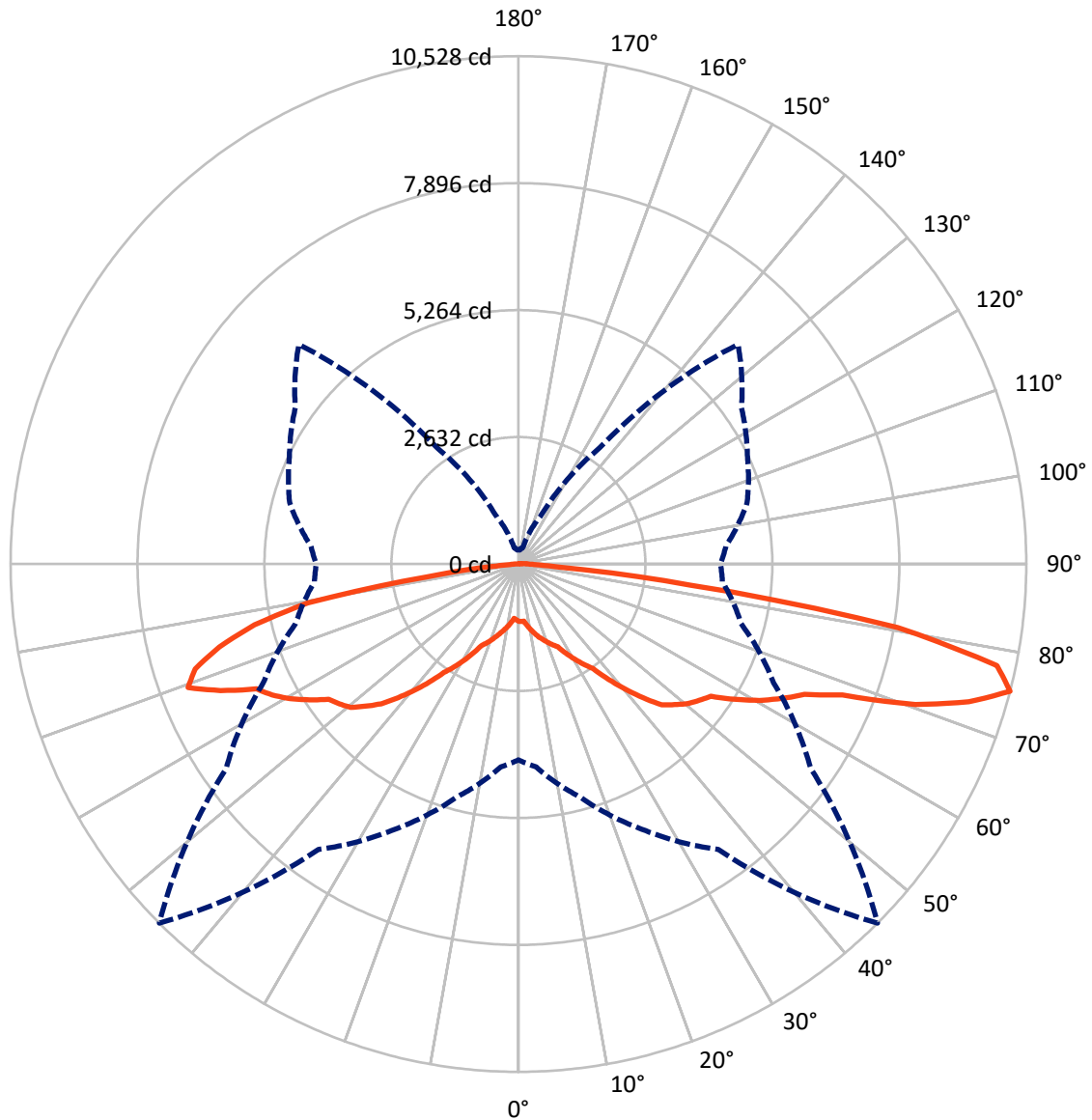
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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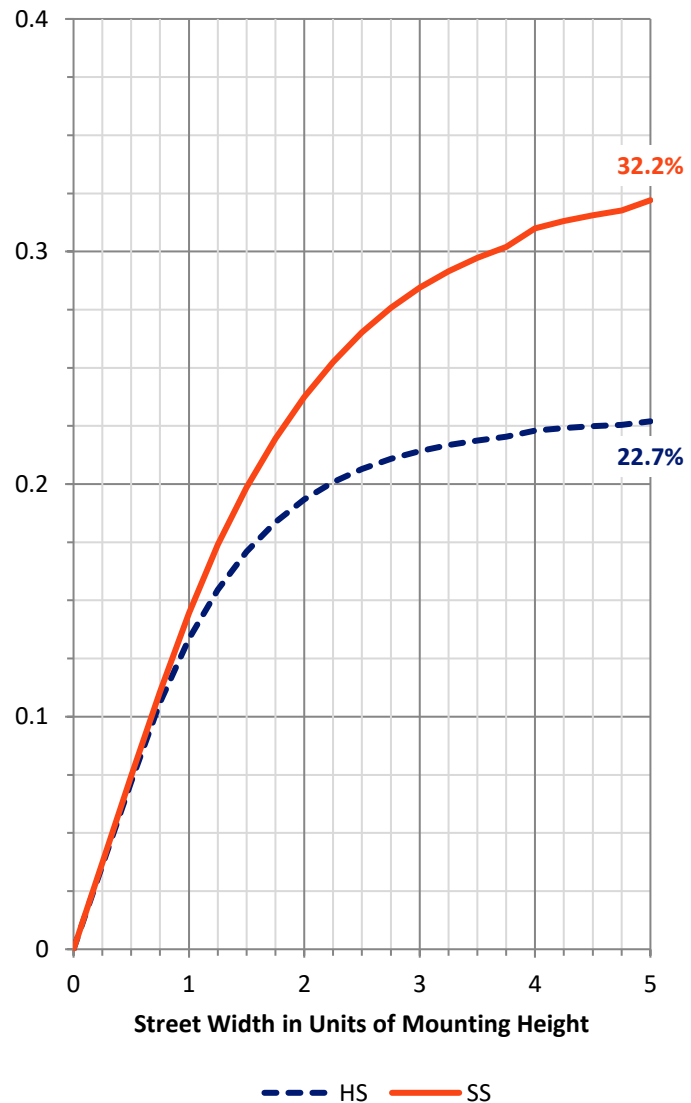
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8404.7	23.0	8427.7
	% Lamp	22.7	0.1	22.8
Street Side	Lumens	12041.2	63.4	12104.6
	% Lamp	32.5	0.2	32.7
Total	Lumens	20446.0	86.3	20532.3
	% Lamp	55.3	0.2	55.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	116.3	0.6	0.3
10°-20°	421.3	2.1	1.1
20°-30°	896.6	4.4	2.4
30°-40°	1667.1	8.1	4.5
40°-50°	2769.4	13.5	7.5
50°-60°	3847.1	18.7	10.4
60°-70°	5023.4	24.5	13.6
70°-80°	4803.5	23.4	13.0
80°-90°	923.8	4.5	2.5
90°-100°	72.2	0.4	0.2
100°-110°	20.2	0.1	0.1
110°-120°	1.6	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	20446.0	99.6	55.3
0°-180°	20532.3	100.0	55.5

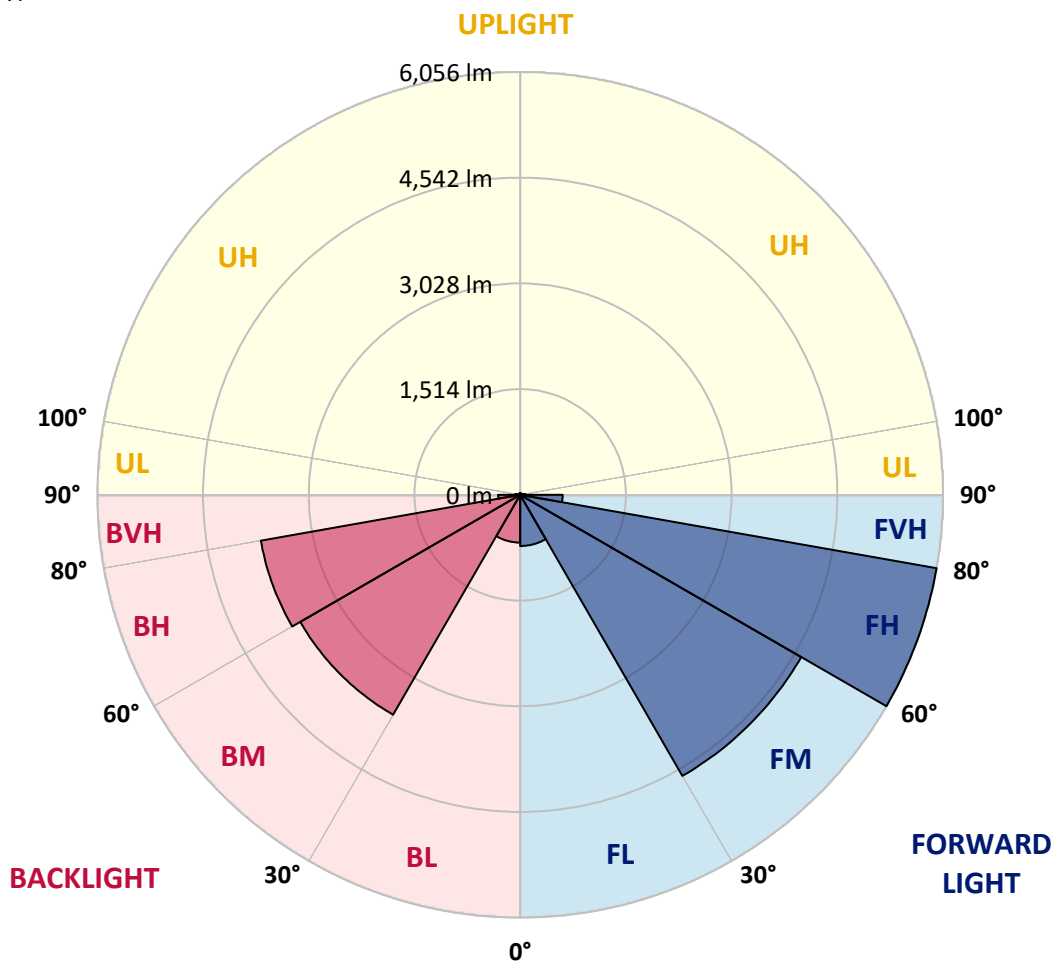


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.2	2.0			
FM (30°-60°)	4647.9	12.6			
FH (60°-80°)	6055.7	16.4			G3/7500
FVH (80°-90°)	608.2	1.6			G4/750
BL (0°-30°)	683.7	1.8	B2/1000		
BM (30°-60°)	3637.4	9.8	B3/5000		
BH (60°-80°)	3771.2	10.2	B4/5000		G4/5000
BVH (80°-90°)	315.6	0.9			G3/500
UL (90°-100°)	72.2	0.2		U3/500	
UH (100°-180°)	23.0	0.1		U2/50	
Trapped Light	16467.7	44.5			

BUG Rating: B4-U3-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
5°	1259.0	1245.7	1225.1	1218.9	1185.0	1191.2	1177.8	1157.3	1151.1	1137.8	1123.4
15°	1692.7	1698.9	1726.7	1719.5	1631.1	1564.3	1530.4	1428.6	1421.4	1401.9	1387.5
25°	1949.7	1929.1	1943.5	1943.5	1889.1	1902.4	1923.0	1841.8	1834.6	1875.7	1861.3
35°	2640.4	2660.9	2640.4	2694.8	2619.8	2660.9	2619.8	2559.2	2559.2	2633.2	2627.0
45°	4048.4	4129.6	4075.1	4325.9	4048.4	4163.5	4109.1	4265.3	4089.5	4231.4	4089.5
50°	4346.5	4522.2	4434.9	4597.2	4624.0	4550.0	4780.2	4657.9	4624.0	4684.6	4780.2
55°	4644.5	4631.2	4637.3	4820.3	4874.7	4840.8	5029.9	4780.2	4780.2	4765.8	4746.3
60°	5239.6	5239.6	5307.4	5578.8	5795.6	5741.2	5680.5	5497.6	5280.7	5186.2	5199.5
62.5°	5348.6	5395.8	5497.6	5916.9	6235.5	6133.8	6079.3	5781.2	5469.8	5328.0	5375.3
65°	5469.8	5490.4	5686.7	6256.1	6546.9	6519.2	6513.0	6032.0	5605.5	5477.0	5416.4
67.5°	5565.4	5558.2	5842.9	6594.2	7020.7	7243.8	7000.2	6418.5	5815.2	5592.1	5510.9
70°	5484.2	5652.8	6160.5	6939.6	7649.7	8726.9	7528.5	6858.4	6045.4	5693.9	5639.4
72.5°	4712.4	4955.9	5741.2	6539.7	7534.6	9762.9	7501.7	6519.2	5551.0	5111.1	5091.6
75°	4061.8	4224.2	5009.4	6065.9	7223.2	10527.5	7400.0	5835.7	4780.2	4244.7	4190.2
77.5°	3182.0	3270.4	4176.9	5220.1	6431.8	10142.1	6296.2	4516.1	3540.7	2931.2	2870.6
80°	1841.8	2024.7	3053.5	3351.6	4434.9	7975.6	4238.6	2870.6	2417.3	1638.3	1604.4
82.5°	785.2	920.9	1604.4	1794.5	2221.0	3601.3	2024.7	1442.0	1292.9	670.1	724.6
85°	392.6	447.1	724.6	717.4	771.9	826.3	717.4	622.8	588.9	311.4	277.5
87.5°	216.9	230.2	304.2	298.1	304.2	318.6	290.9	243.6	243.6	149.0	122.3
90°	135.7	135.7	162.4	169.6	175.7	182.9	175.7	141.8	135.7	81.2	67.8
95°	67.8	74.0	88.4	94.6	115.1	101.7	122.3	101.7	81.2	54.5	47.3
105°	13.4	13.4	13.4	13.4	7.2	7.2	13.4	7.2	7.2	7.2	7.2
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
5°	1117.2	1103.8	1137.8	1143.9	1130.6	1137.8	1137.8	1130.6	1123.4	1137.8
15°	1374.1	1353.6	1408.1	1462.5	1475.9	1415.2	1232.3	1205.6	1164.5	1205.6
25°	1855.1	1787.3	1719.5	1773.9	1861.3	1875.7	1929.1	1929.1	1875.7	1923.0
35°	2606.4	2552.0	2436.9	2585.9	2728.7	2802.7	2776.0	1997.0	1698.9	1692.7
45°	3993.9	3940.5	3865.5	3967.2	4061.8	3933.3	2010.3	1374.1	1151.1	1177.8
50°	4468.8	4420.5	4312.6	4610.6	4576.7	4434.9	1855.1	1434.8	1313.5	1340.2
55°	4650.7	4597.2	4407.1	4746.3	4833.6	3960.0	1956.9	1740.0	1564.3	1557.1
60°	5118.3	5029.9	5057.7	5409.2	5497.6	3195.4	2227.2	1766.7	1523.2	1530.4
62.5°	5239.6	5254.0	5254.0	5652.8	5781.2	2944.6	2221.0	1665.0	1374.1	1368.0
65°	5361.9	5435.9	5477.0	5916.9	6011.5	2870.6	2179.9	1509.8	1164.5	1151.1
67.5°	5537.7	5660.0	5883.0	6289.0	6709.3	2992.9	2274.5	1360.8	907.5	894.2
70°	5632.2	5890.2	6228.3	6614.8	7311.6	3080.2	2172.7	1056.6	677.3	704.0
72.5°	5118.3	5626.1	5910.7	6275.6	7047.5	2972.3	1638.3	663.9	467.6	473.8
75°	4319.8	4908.7	5239.6	5646.6	6438.0	2938.4	1110.0	358.7	290.9	298.1
77.5°	3012.4	3812.0	4027.9	4624.0	5612.7	2863.4	751.3	250.8	216.9	216.9
80°	1685.6	2525.2	2701.0	3087.4	4434.9	2085.4	487.2	216.9	256.9	338.1
82.5°	663.9	1171.7	1434.8	1415.2	1915.8	832.5	243.6	196.3	101.7	107.9
85°	290.9	507.7	615.6	596.1	534.4	209.7	88.4	94.6	13.4	26.7
87.5°	94.6	182.9	189.1	189.1	162.4	88.4	41.1	20.6	7.2	26.7
90°	26.7	88.4	94.6	94.6	81.2	47.3	20.6	7.2	0.0	0.0
95°	13.4	54.5	60.6	60.6	41.1	41.1	20.6	13.4	7.2	0.0
105°	0.0	7.2	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)